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JVC LT-22DD22J OPERATING INSTRUCTIONS MANUAL

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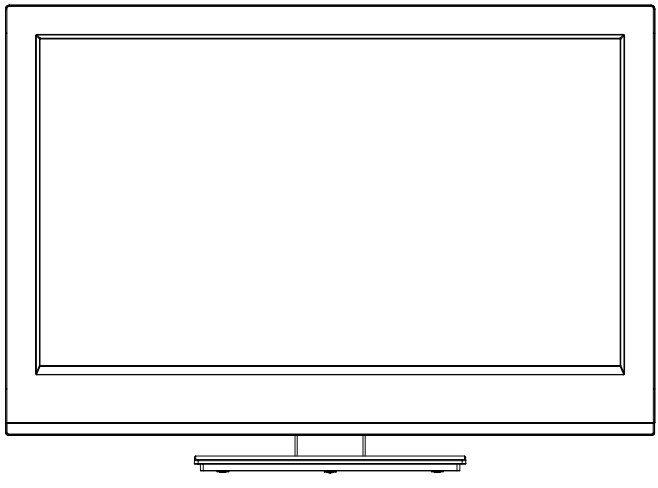
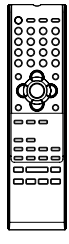
JVC

LT-22DD22J

LCD-TV WITH DVD PLAYER

Operating Instructions



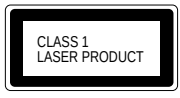


Before operating the unit, please read this manual thoroughly.

Important Warning

CAUTION:
A UNIT IS A CLASS 1 LASER PRODUCT. HOWEVER THIS UNIT USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE PLAYER CORRECTLY AS INSTRUCTED.

THE FOLLOWING CAUTION LABEL IS LOCATED ON THE REAR PANEL OF THE UNIT.



WHEN THIS UNIT IS PLUGGED INTO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENINGS TO LOOK INTO THE INSIDE OF THIS UNIT.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

Headphone Warning
Loud music can damage your hearing irreversibly, therefore do not set the volume to a high level when listening through headphones, particularly for extended listening periods.

Battery notice (valid in EU only)
Look after our environment - contact your local authorities for advice on how to safely dispose of exhausted batteries. The crossed out wheelie bin symbol indicates that used batteries should not be disposed of with your normal household waste! A separate collection system for used batteries is in place to allow the correct treatment and recycling in accordance with current legislation. Please contact your local authority for details on collection and recycling schemes in your area.

Information for the DVB-T function
- Any function relative to the digital television (with the DVB logo) is available only within the country or area where such signals are transmitted. Verify with the salesman if it is possible to receive a DVB-T signal in the zone where you live.
- A DVB-T antenna (not supplied) must be connected for DVB-T reception.
- Even if the television conforms to the DVB-T specifications, the compatibility to future digital DVB-T transmissions is not guaranteed.
- Some digital television functions may not be available in some countries.
- The DVB-T system present in this device is FTA (Free to air).

Dear Customer, **[European Union]**

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of Victor Company of Japan, Limited is:

JVC Technical Services Europe GmbH Postfach 10 05 04

61145 Friedberg

Germany

Features

TV

- 16:9 LCD screen
- LED-Backlight-Technology - It realize thin profile, low power consumption, eco-friendly Hg-less design and high contrast picture.
- On-Screen Language Display in 15 languages (English, Spanish, German, French, Italian, Swedish, Dutch, Russian, Portuguese, Turkish, Greek, Finnish, Polish, Danish and Norwegian)
- Hyperband cable DVB-T Combi-Tuner
- Electronic Progr. Guide (EPG) for DVB-T
- 999 Channel position memory for Digital CH and 100 Channel position memory for Analogue CH
- Videotext – Fastext/TOPtext
- Remote control
- Sleep timer
- COMPONENT input
- Headphone Jack (for mini plug)
- PC Connection (VGA) (see page 32)
- HDMI-connection
- Auto Power Off after 4 hours with no operation

DVD Player

- Digital output for Dolby Digital and DTS
- Playback of DVD, MP3/WMA/JPEG and Audio-CD

Information for Users on Disposal of Old Equipment and Batteries

[European Union]

These symbols indicate that the electrical and electronic equipment and the battery with this symbol should not be disposed of as general household waste at its end-of-life. Instead, the products should be handed over to the applicable collection points for the recycling of electrical and electronic equipment as well as batteries for proper treatment, recovery and recycling in accordance with your national legislation and the Directive 2002/96/EC and 2006/66/EC.

Products

Battery

Notice :
The sign Pb below the symbol for batteries indicates that this battery contains lead.

By disposing of these products correctly, you will help to conserve natural resources and will help to prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of these products.

For more information about collection points and recycling of these products, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

[Business users]

If you wish to dispose of this product, please confirm attached “KESA ELECTRICALS SAFETY INSTRUCTIONS” to obtain information about the take-back of the product.

[Other countries outside the European Union]

These symbols are only valid in the European Union.

If you wish to dispose of these items, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment and batteries.

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Important safety information

This unit has been produced according to all current safety regulations. The following safety tips should safeguard users against careless use and the dangers connected with such use.

- Although this appliance has been carefully manufactured and rigorously checked prior to leaving the factory, as with all electrical appliances it is possible for problems to develop. If you notice smoke, an excessive build-up of heat or any other unexpected phenomena, you should disconnect the plug from the mains power socket immediately.
- Ensure that the unit is sufficiently ventilated! Never place next to or underneath curtains!
- This set should be only be connected to an AC 220~240V / 50Hz mains power supply - do not attempt to connect it to any other type of supply.
- The socket-outlet must be installed near the equipment and easily accessible.
- Any repairs must be carried out by qualified service personnel only.
- Do not open this unit. A non-expert attempting to repair the unit could be dangerous and potentially cause a fire hazard.
- Keep away from rodents. Rodents (and also cockatiels) enjoy biting into electric flexes.
- The animal can cause a short cut (fire hazard!) and receive a fatal electric shock.
- Always hold plug when pulling out plug from power mains supply system. Do not pull on flex. The flex can become overloaded and cause a short cut.
- Never wet clean. Only use a damp cloth, the same as when cleaning furniture.
- Do not submerge in or under water!
- Set up unit so that no one is able to trip over the flex.
- This unit is recommended to be installed on shock-free benches in order to avoid any danger from falling.
- Take note that toddlers can pull the unit down from the table or cupboard by means of its flex. Children can hurt themselves when doing this.
- Do not use the unit near heat sources. The casing and flex could be damaged by the impact of heat.
- Watch out for kiddies copying what adults do! Do not stick any objects through the vents!
- The vents must remain open! No newspapers or covers should be put on the unit!
- The remote control is not a toy! Toddlers could swallow the batteries. If a battery has been swallowed, please seek out a doctor immediately.
- The screen is made of glass and can break if damage is done to it. Be careful when collecting sharp-edged glass splitters.
- You could be hurt or the unit could be damaged.
- If the unit is mounted on the wall, contact the shop where you purchased the unit for advice, and leave the installation work to experts. Incomplete installation work can cause you injuries.
- Taking fall-prevention measures
  - If these measures are not taken, the unit can fall and you could be injured.
  - Contact the shop where you purchased the unit to obtain full details of the measures.
- When a TV stand is used,
  - Ensure the unit is fully on the stand and placed in the centre.
  - Do not leave the stand doors open.
  - You could be hurt as a result of the unit falling or breaking, or your fingers being caught or jammed. Take extra precautions if you have children.
- Avoid placing the unit on any surfaces that may be subject to vibrations or shocks.
- To protect the unit during a thunder storm unplug the AC power cord and disconnect the antenna. Caution: Do not touch the antenna connector.
- When you leave your home for a long period of time, unplug the AC power cord for safety reasons.
- The unit becomes warm when in operation. Do not place any covers or blankets on the unit in order to prevent overheating. The ventilation holes are not to be blocked. Do not set up near radiators. Do not place in direct sunshine. When placing on a shelf leave 10 cm free space around the whole unit. Make some space around TV (Correct shelf assembly).
- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
  Liquids spilled into the unit can cause serious damage. Switch the set OFF and disconnect the mains power supply, then consult a qualified service person before attempting to use the unit again.

Please pay attention to the following instructions in order to avoid receiving a life-threatening electric shock:

- Protect against moisture. Never use in the bath or sauna.
- Never use near a bath, shower or swimming pool.
- Never use the unit if it has got wet. This can also mean condensation moisture, which occurs in the winter when the cold unit is brought into a heated flat. Wait before operating the unit especially after it has been transported in the winter, until the cold unit has adjusted to the room temperature.
- Do not place any heavy objects on the flex. Electrical isolation could be damaged.
- Never wrap insulating tape around damaged flexes or on damaged plugs. These should be repaired or replaced by qualified service personnel.
- Never use this unit if the cabinet is defective. Do not make provisional repairs if the cabinet is damaged - this should be replaced by a new cabinet if necessary.
- Unplug the unit from the mains power supply prior to the cleaning of the unit.

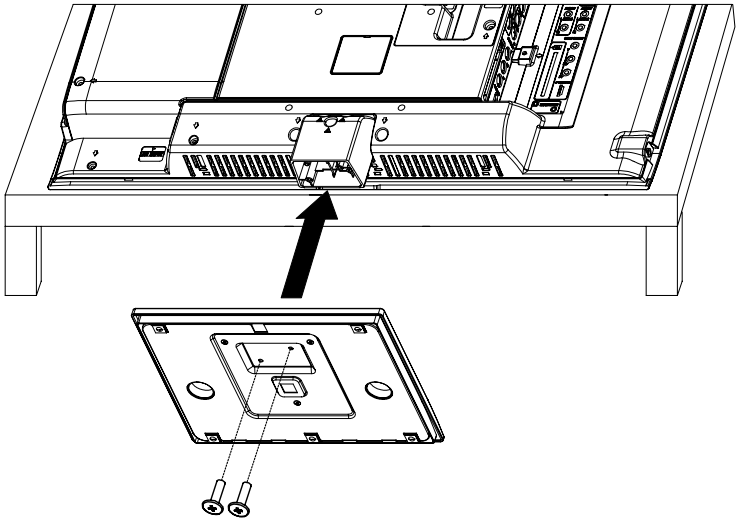
Important safety information

How to attach the stand

NOTE:

- Unplug the AC cord from the AC INPUT terminal.
- Before beginning this process, assure that TV is laid on a clean, safe, and cushioned space to avoid any damage to the unit.
- Do not touch or press the TV-screen, glass might break under pressure.
- Be sure to follow the instructions. Incorrect installation of the stand may result in the TV falling over.

1) Place the TV on its front onto a table.
2) Align the stand's bottom-plate (supplied) as seen here.
   It will fit in only one direction.
3) Hold the unit and attach the stand slowly. Finally secure the bottom-plate with 2 screws(included).



NOTE:

- To detach the stand, perform these steps in reverse order.

Dismantling the base

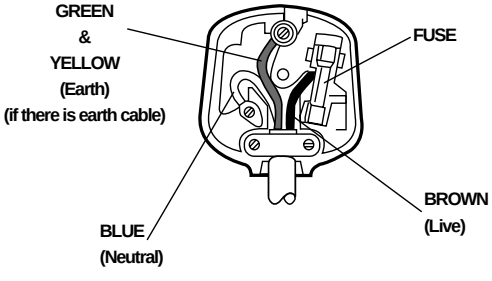
For wall mounting, the base must be dismantled. To do this, remove 3 screws (M, see page 10) from the back. Take off the base entirely.

Important Instruction

For your own safety read following instruction carefully before attempting to connect this unit to the mains supply.

MAINS (AC) OPERATION

The wires in the mains lead are coloured in accordance with the following code :



IMPORTANT

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green and yellow must be connected to the terminal which is marked with the letter E, or by the earth symbol, or coloured green or green and yellow.

The wire which is coloured blue or black must be connected to the terminal which is marked with the letter N or coloured Black.

The wire which is coloured brown or red must be connected to the terminal which is marked with the letter L or coloured Red.

For continued protection against risk of fire, replace only with same type and rating of fuse (ASTA approved 5A 250VAC fuse).

WARNING

- To prevent fire, never place any type of candle or open flame on the top or near the TV set.

Moving the unit or carrying by hand

When the unit is moved a long way, unplug the power cord and disconnect the antenna, connecting cables and any fall-prevention apparatus.

- Moving without doing so could result in damage to the power cord, a fire, electric shocks or injuries from dropping the unit.

Ensure that unpacking and transfer of the unit is carried out by two or more people and that the unit stays upright when doing this.

When the TV stand has casters, remove caster cups from the stand and push it while supporting the unit.

- Ensure that you support the unit when the stand is pushed, as this can cause the unit to fall and you could be injured.
- The appliance could leave indentations in wooden tables with extremely soft wooden surfaces due to its heavy weight.
- Furniture polish could corrode and dissolve rubber feet. Black imprints could be visible on the table. You should therefore only use TV benches, which have been constructed for this specific purpose.

Secure the casters when the unit is installed on a TV stand with casters.

- The stand can move and you could be hurt if the casters are not secured. Remove casters when the stand is placed on a soft surface such as a mat and carpet.

The distance between eyes and the screen should be about 3 ~ 4 times as long as height of the screen.

- Viewing from too close a distance can cause strain for your eyes.

When installing the Monitor on a table, be careful not to place the edge of its stand.

- This may cause the Monitor to fall, causing serious injury to a child or adult, and serious damage to the Monitor.

Possible Adverse Effects on LCD Screen: If a fixed (non-moving) pattern remains on the LCD screen for long periods of time, the image can become permanently engrained in the LCD TV panel and cause subtle but permanent ghost images. This type of damage is NOT COVERED BY YOUR WARRANTY. Never leave your TV on for long periods of time while it is displaying the following formats or images:

- Fixed Images, such as stock tickers, video game patterns, TV station logos, and websites.
- Special Formats that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (Black bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (Black bars on left and right sides of screen).

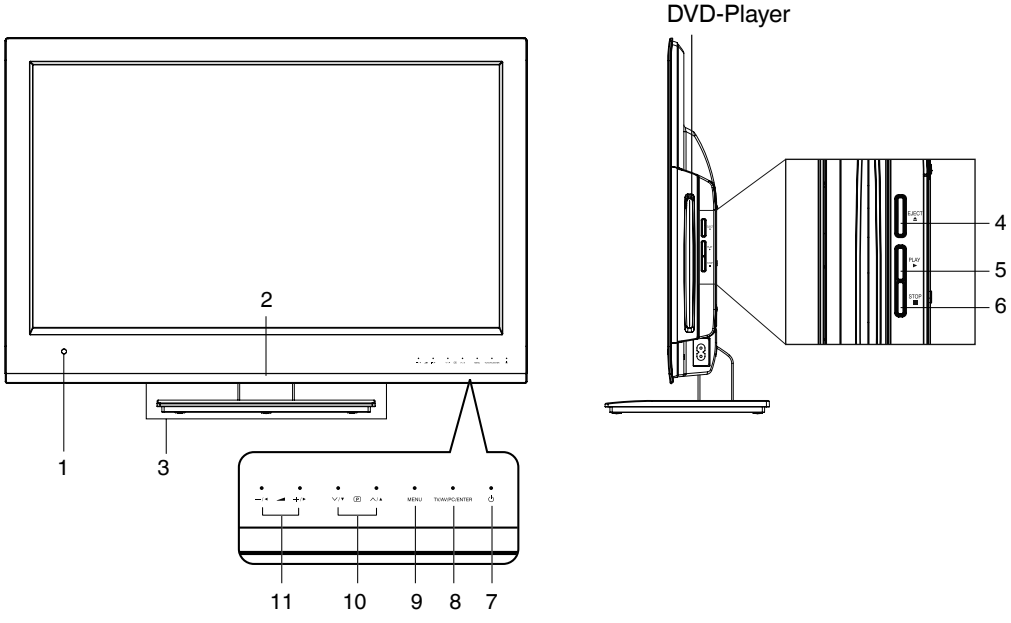
Attention!
Cleaning instructions for your LCD TV.

Safety note:
Before you start to clean, switch the set's power off completely and disconnect the plug from the mains power supply.

Be careful not to scratch the plastic coated front panel - it is highly vulnerable to accidental scratching (e.g. by fingernails or other sharp items). (While cleaning, do not wear jewelry) that could cause surface scratching (such as rings, wrist-watch, etc.). Use a lint-free cloth and pure water to clean with, but make sure the cloth is thoroughly wrung out so that it is just damp and not soaking wet - also make sure that the cloth is free from any dirt that could cause scratching to the surface.
Wipe the set clean using minimal pressure.
Do not use standard window cleaning fluid. Its alcohol / ammonia will dissolve the front window's coating. Never use solvent or thinner. Never use special cleaners which are designed for cleaning PC Monitors or CRT TVs. Finally carefully rub dry with a clean dry lint-free cloth.
Do not use paper towels or tissues to clean the set - paper can disintegrate when wet or may leave a trail of dust behind. Some paper can also be abrasive and scratch your screen.

Saving electricity
The backlight's brightness (power) can be set manually to match the surrounding illumination. At bright daylight the backlight's full power is required to perform a brillant result. During lower illumination, e.g. at night, you set a lower backlight-brightness (see p. 19). Figures lower than 100 reduce the brightness, save energy and offer a dazzlefree fatigueless watching at night.

Location of controls

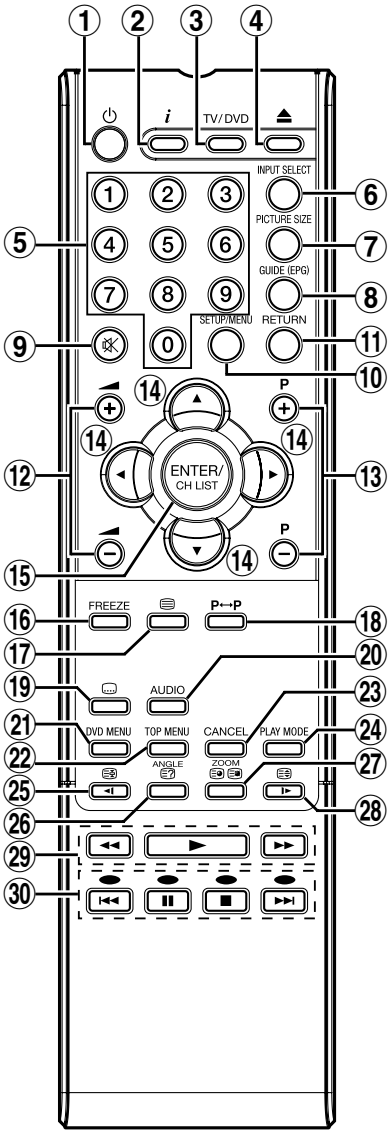


Description of Indicators and Controls

1. **Remote sensor**
2. ⏻ **(Standby/On) indicator:** The LED indicator lights up red in standby mode, and blue in the power ON mode.
3. **Loudspeakers**
4. **EJECT:** Eject a disc.
5. **PLAY (►) button:** Playback.
6. **STOP (■) button:** Stop.
7. ⏻ **(Power)-button:** Preparation: Connect power-cable to AC220~240V/50Hz.
   a) If standby-LED is red, you may power-off. To power-off, press power-button 1x and release. For confirmation, standby-LED will change to dark. Power-on by remote control is not available.
   b) If standby-LED is off, you may power-on. To power-on, press power-button 1x and release. For confirmation, standby-LED will change to blue.
8. **TV/AV/PC/ENTER button:** Select input mode. Press **TV/AV/PC/ENTER**. Then press ▲/▼ to select input source. Then press ►. In Menu : Using as **ENTER** button.
9. **MENU button:** To display the menu screen.
10. Ⓟ ∧/∨/▲/▼ **buttons:** Press ∧ to change to a higher numbered channel set into memory. Press ∨ to change to a lower numbered channel set into memory. In Menu: Setting.
11. ◢ **+/–/◄/► buttons /** In Menu: Setting.

For complete disconnection from the network, remove the supplied power cable from the socket.

Remote Control



	Function	Page
①	Enter standby mode or turn on the power	11
②	Display program position number	13, 26
③	Select to operate TV/DVD	24
④	Eject a disc	24
⑤	Select channel Select Teletext page Enter password Select title/chapter/track	13 14 16, 30 25, 26
⑥	Select an input source	12
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㉘	Teletext enlargement Forward slow motion	14 25
㉙	DVD control buttons	24
㉚	Fastext/TOPtext buttons DVD control buttons	14 24, 25

Remote Control

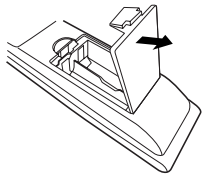
Install the batteries

Use batteries type UM3 (AA-Size).
Do not use old or weak batteries. The remote control may not work properly with a weak voltage from such batteries. Replace exhausted batteries with new ones. Never try to recharge normal batteries - this could cause an explosion.

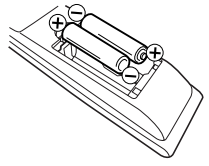
Note:

- Exhausted batteries can leak corrosive electrolyte, which may cause damage to the remote control - therefore remove exhausted batteries immediately.
- Batteries should not be exposed to excessive heat such as sunshine, fire or the like.

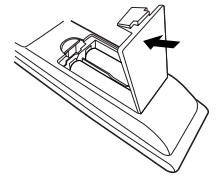
1 Open the battery compartment.



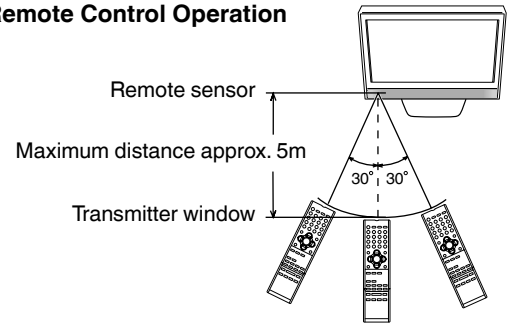
2 Install the batteries as shown below, ensuring the correct polarity.



3 Close the battery compartment.

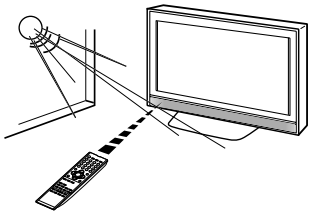


Distance of Remote Control Operation

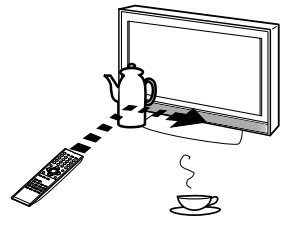


Point the remote control directly at the remote sensor.

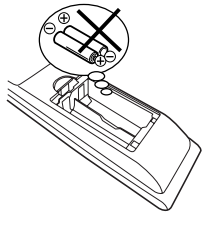
The remote control handset will not work properly in the following cases:



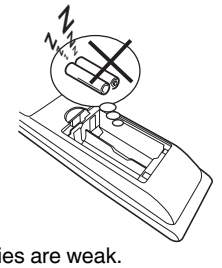
a) If bright sunlight directly beams onto the unit front.



b) If an obstacle is placed between the unit and the handset.



c) If the batteries have not been installed according to their polarities.

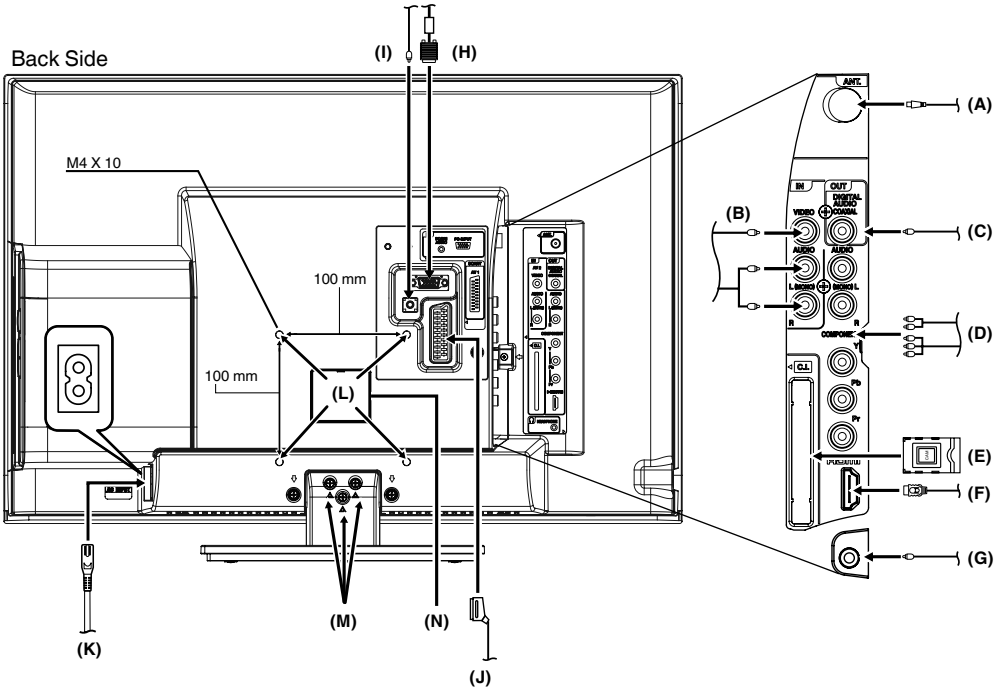


d) If the batteries are weak.

Antenna connection

Note: Before you connect other appliances:
- To avoid potentially damaging your set, make sure all items are switched off and disconnected from the mains power when you make the connections.
- Arrange the desired connection.
- When you have finished making the connections, reconnect the mains power to the unit and switch it back on.

Connect your antenna as shown below (A). Connections to other equipment is explained further on P.32-35. If you have problems with reception, consult a specialist of antenna.



(A) **DVB-T antenna:** Connect a DVB-T antenna if DVB-T is already available in your transmission area. Or connect to an analogue cable connection.
The built-in tuner receives all analogue cable programmes and DVB-T channels.

(B) **AV2 input:** Input for analogue AV-Signal (Composite) See P.35.

(C) **DIGITAL AUDIO COAXIAL output:** digital output for CD/DVD & DVB-T (see pages 34, 35).

(D) **COMPONENT input:** See P.35.

(E) **C.I. slot:** for DVB-T-PayTV (if PayTV-provider supports this)
This unit supports the C.I. card of "Top Up TV" and "Boxer".

(F) **HDMI input (HDMI/DVI):** See P.33.

(G) **HEADPHONE jack:** Plug headphones with a mini plug (3.5 mm) into this jack.

(H) **PC-INPUT (PC):** See P.32.

(I) **PC/DVI AUDIO input:** See P.32, 33.

(J) **SCART socket (AV1):** For the connection of SCART cables. See P.34.
AV1: Transmits RGB, S-Video and CVBS in, and CVBS tuner out.

(K) **Power supply:** Connect the supplied power cable to an AC 220-240V/50Hz mains power supply only - do not attempt to connect it to any other type of supply. Never try to repair a damaged AC power cord with isolation-tape - this should be repaired by a specialist or replaced. Do not let your pet loose near the cable. Animals biting into the cable could receive a fatal electric shock, and could cause hazard to others.

(L) **Bracket holes:** To attach a wall mounting bracket (not supplied), attach where indicated in the drawing above.

(M) To hang the television on a wall, remove these screws and then remove a stand.
Before performing work spread cushioning over the base area to lay the TV on.

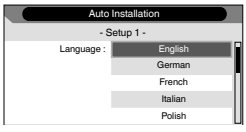
(N) **Service connector cover:** Please do not open this cover. There is a socket only for service purpose inside.

Auto setup

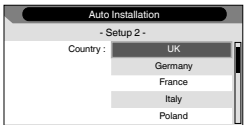
Your television has an Automatic Tuning System which makes tuning in your television easy. This Automatic tuning System scans the entire reception range in your area and automatically stores all available analogue and digital channels of suitable signal strength in the correct order e.g. BBC1 will tune into channel 1, BBC2 will tune into channel 2, etc.

Preparation:
Press ⏻ (Power) on the unit or press ⏻ (On/ Standby) on the remote.

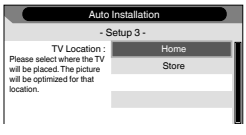
1 Auto Installation menu will appear.
Press ▲ or ▼ to select desired language.
Then press **ENTER**.



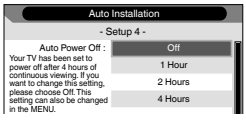
2 Press ▲ or ▼ to select your country.
Then press **ENTER**.



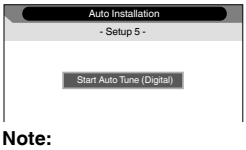
3 Press ▲ or ▼ to select Home.
Then press **ENTER**.


Auto Installation
- Setup 3 -
TV Location :
Please select where the TV will be placed. The picture will be optimized for that location.
Home
Store

4 If you cancel Auto Power Off (see page 20), press ▲ or ▼ to select Off. Then press **ENTER**.


Auto Installation
- Setup 4 -
Auto Power Off :
Your TV has been set to power off after 4 hours of continuous viewing. If you want to change this setting, please choose Off. This setting can also be changed in the MENU.
Off
1 Hour
2 Hours
4 Hours

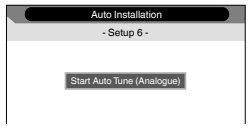
5 TV will search for Digital TV-channels at first.
Connect your DVB-T antenna now.
Continue with **ENTER** to start auto tuning.
The tuning's progress will be displayed in percent for confirmation.



Note:
- **Please be patient - the Auto Tuning process can take several minutes to complete.**

6 When the tuning for Digital TV-channels is completed, you will be asked if you want to proceed to autotuning for Analogue TV-channels. If you wish to start autotune Analogue TV-channels, connect your Analogue cable-TV antenna and press **ENTER**.

Note:
- If you do not wish to carry out the autotuning for Analogue TV-channels, press **MENU** to exit the menu.



7 When the display reads 100%, normal TV-screen will appear.

Note:
- To cancel the auto tuning, press **RETURN** during the process.

THE AUTOMATIC TUNING PROCESS WILL ONLY START BY ITSELF THE FIRST TIME YOU SWITCH THE SET ON. HOWEVER YOU CAN RESTART THIS PROCESS VIA THE MENU SYSTEM (see page 12).
- If you could not set up a correct pair of language and country in this auto setup process, you will be able to make your preferred language selection as illustrated in page 12 (On-screen Language Selection).

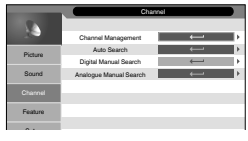
Quick guide for Menu operation

Make sure the antenna connection and power supply are connected as per the description on previous page.

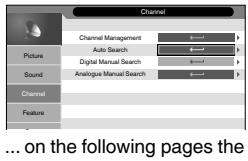
Call Menu and for example: Select Auto Search.

1 Press **INPUT SELECT**. Select TV or DTV, then press **ENTER**. Press **MENU**.

2 Press ▲ or ▼ to select Channel then press ►.



3 Press ▲ or ▼ to select Auto Search, then press ►.



... on the following pages the MENU can be called in the same way as here.

4 Press **MENU** to exit the menu.

Note:
- The Menu screen disappears automatically after a defined period of time with OSD Timer. (see page 21)

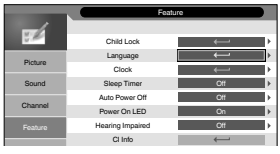
Selecting the input source

Press **INPUT SELECT** to view a signal from another device connected to your TV, such as a VCR or DVD player. You can select each input source depending on which input jacks you used to connect your devices.

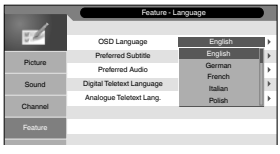
To select the video input source, press ▲/▼, then press **ENTER**.

On-screen Language Selection

1 Select Feature (unless you have already selected when the set was first switched on) then press ►. Then press ▲ or ▼ to select Language, then press ►.



2 Press ▲ or ▼ to select OSD Language, then press ►. Press ▲ or ▼ to select the desired language.



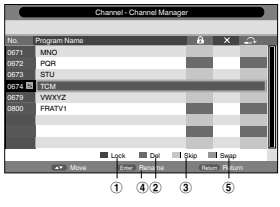
3 Press **MENU** to exit the menu.

Changing the order of stored channels

The Automatic station presetting stores the stations in a specific order. However, this order can be changed if you wish.

1 Press **MENU**. Select Channel Management option in Channel menu, then press ►.

2 Press ▲/▼ or ◄/► to select the channel that you want to change, then select desired option from the below of the TV-screen. Then press the appropriate coloured button on the remote control.



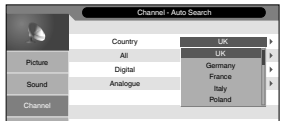
① **Lock (red button):** Red ◢ mark will appear. (Lock is available only when Child Lock is On. See page16.)
② **Del (green button):** Green ◢ mark will appear.
③ **Skip (yellow button):** Yellow ◢ mark will appear.
④ **Rename (ENTER button):** You can change the name of a channel on the cursor screen with ▲/▼/◄/►, **ENTER** and **Red/Green/Yellow** buttons.
⑤ **Swap (blue button):** Press ▲ or ▼ to select the position that you want to swap the channel with, then press **ENTER**.

Station search

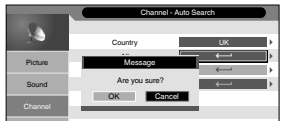
Warning! All previously saved channels are deleted in Step 4. A new channel search then starts automatically.

1 Press **MENU**. Select Auto Search option in Channel menu, then press ►.

2 Press ► and then press ▲ or ▼ to select the desired country, then press **ENTER**.

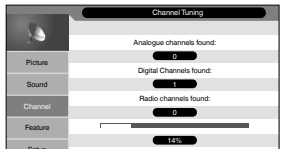


3 Press ▲ or ▼ to select the searching mode, then press ►. The confirmation screen will be displayed.



All: Search for the both of Digital, Analogue and Radio channel.
Digital: Search for Digital and Radio channel.
Analogue: Search for Analogue channel only.

4 Select **OK** and press **ENTER** to start Auto Search.

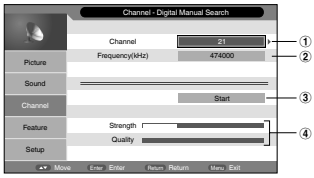


Note:
- Press **RETURN** if you return to step 2.

5 When the display reads 100%, press **MENU** to exit the menu.

Manual Station search

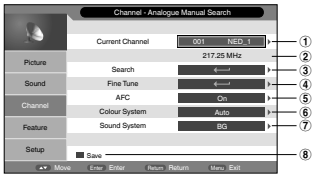
Digital Manual Search



Preparation:
Select DTV in INPUT SELECT. Press **MENU**. Select Digital Manual Search option in Channel menu, then press ►.

① Press ►, then press ▲ or ▼ to select the channel to search for, then press **ENTER**.
② Frequency of Digital channel to be searched.
③ Select Start, then press **ENTER** to start searching.
④ You can verify the signal strength and quality of the selected service here. If necessary, adjust the direction of the antenna to obtain the maximum signal strength.

Analogue Manual Search



Preparation:
Select TV in INPUT SELECT. Press **MENU**. Select Analogue Manual Search option in Channel menu, then press ►.

① Press ►, then press ▲ or ▼ to select the current channel, then press **ENTER**.
② Frequency of current selected Analogue channel.
③ Press ►, then press ◄ or ► to perform intermittent search from current selected Analogue channel's frequency position.
④ Already correctly and optimally installed. Do not change anything here. Any changes can cause picture or sound disruption. The video can also be affected.
⑤ Press ►, then press ▲ or ▼ to select AFC On or Off, then press **ENTER**.
⑥ Colour System has already been preset to Auto. Do not change anything here. Any changes can cause picture or sound disruption.
⑦ The correct sound system is already installed. Any changes can cause sound disruption.
⑧ Finally, press red button to save the searched channel.

Basic Operation

Channel selection

With the **numbered buttons**.
Example:
- No. 2: Press **2**.
- No. 29: Press **2** and within 2 seconds, press **9**.
- No. 929: Press **9**, **2**, **9** same as above.

Press **P +** or **–** to change up or down a channel. This takes approx. 2 seconds. If the auto search only stored 5 stations, only these 5 will appear. Skipped channels will not appear (see P.12).

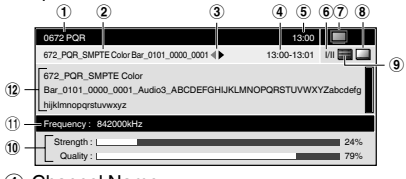
Channel List

The channel List shows a list for each receivable programmes for TV/DTV and Radio.
Press **CH LIST** to display the Channel List.
Press ▲ or ▼ to select the desired channel.
Press **CH LIST** to display the selected channel.

Information display

Press ***i***. The program information will appear for approx. 4 seconds.
- If you press ***i*** twice, more information and signal strength and quality will appear.

The following figure is an example of DVB-channel reception.



① Channel Name
② Program Title
③ Next program detail and current program detail alternate by ◄/► buttons
④ Program Duration
⑤ Current time
⑥ There are two or more audio languages. (see below)
⑦ Radio icon will appear in case of Radio channel.
⑧ There is one or more subtitle languages. (see below)
⑨ DVB Teletext available
⑩ Signal strength and quality
⑪ Frequency of channel
⑫ Program Detail

Note:
- There is no sound output from the main unit's speakers when a DVB-channel with Dolby Digital audio is selected. You can only hear Dolby Digital audio through the amplifier equipped with a Dolby Digital decoder. (see P.25)
- Dolby is a trademark of Dolby Laboratories

Audio/Subtitle language for DVB-channel

If the current watching DVB-channel has more than one audio language or subtitle language, you can change them with **AUDIO** or .
- Press **AUDIO**. Audio language menu will appear. Then press ▲ or ▼ to select the Audio language.
- You can also select the audio format (Stereo, Left or Right) by pressing of ◄ or ►.
- Press , then press ◄ or ► to select DTV Subtitle. Then press ▲ or ▼ to select the Subtitle language. Then press **ENTER**.

Note:
- Some DVB-broadcasts may not provide subtitle language service.
- To cancel the Audio/Subtitle language menu, press **RETURN**.

QuickView

P↔P button allows you to go back to the last selected TV channel.

- This feature is not available in external input mode and also it can not step over the ATV-input mode and DTV-input mode.

MUTING

Press 🔇. The sound will be cut off.
The muting can be released by pressing 🔇 again or 🔊 + or –.

Still picture

Press **FREEZE** to make a still picture. To cancel the still picture, press **FREEZE** again.

Note:

- The still picture function is not available for 1080p (50Hz/60Hz)-input mode.
- During still picture mode, PICTURE SIZE feature is not available. (If you press **PICTURE SIZE**, still picture mode will be canceled.)
- If you performed the still picture function in DTV-input mode, this function works with also the external output signal from SCART socket.

Note:

- During TV or external input mode (except PC input mode), if there is no signal reception, the TV will change to standby after approx. 15 minutes (in PC input mode: 2 minutes).
- Some functions are activated and de-activated with the same key. Others require **RETURN** key for de-activating.

Teletext

Teletext is sent page by page. This unit is able to automatically store up to 800 pages, but they can only be accessed once they have been stored. This can take a few moments.

The Teletext language menu allows the installation of the teletext language.

The languages displayed are only those supported by the channel.

Fastext/TOPtext

The Fastext/TOPtext is teletext with a special directory. On the lower part of the screen there are four different coloured fields (red, green, yellow and blue). These fields lead directly to the pages shown within. The coloured buttons on the remote control correspond to the coloured fields. Press the appropriate coloured button in order to activate the desired colour field.

Switch on / off Teletext

Teletext is not transmitted by all channels.
Select a channel that shows teletext.
Press 📄. You will now see a teletext page.
(If "100" is shown without any text information, it may mean that the channel you have selected does not support teletext.)
Press 📄 again. Teletext and TV picture are shown simultaneously.
Press 📄 again in order to switch off teletext.
Press 📄 again in order to switch on teletext again. The last page which was stored is now shown.

Note:

- You cannot select any other channels as long as teletext is switched on. Switch teletext off when you want to switch over to another channel.

Select Page

Press **P +** or **–** until the page you desire appears. Or ... enter the requested page number by using the **10 Number Buttons**.
And if you mistype something, just enter the complete 3-digit wrong page number then enter the desired number again. Or ... press one of the coloured teletext buttons so that a page from Fastext/TOPtext is shown.

Hold Pages

Some pages are divided up into subpages by the channel. Subpages are automatically shown in turn, as they are transmitted. In order to hold the page, press 📄. Press 📄 again in order to display the next subpage.

Directly Select Subpages

You can directly select the subpages if required. You may use one of two operations.

1. Press 📄 📄 in order to select subpage 2. 0 0 0 0 is shown. Enter **0 0 0 2**. It can take a minute before subpage 0002 appears. Press 📄 📄 again in order to switch off the subpage feature.

Or:

2. Wait a few seconds, and the right now available subpages will be shown in the bottom line. Select your page with ◄ or ►.

Enlargement

In order to enlarge the display, press 📄.
Either the upper or lower half of the screen is enlarged.
Each time you press 📄 you switch between the display of the upper or lower half of the screen or the full picture.

Answering Quiz Questions

Some pages contain quiz questions with concealed answers.
Press 📄 in order to show the answers.

Stereo reception in analogue cable TV channel mode

You can see the each signal type of STEREO, Nicam Mono, and DUAL I/II, etc. on the TV-screen when you press *i*.

When 2-channel sound reception is available, you can select your preferred audio with the AUDIO.

Each time you press **AUDIO**, the sound channel will switch to the alternative channel available.

Note:

- In case of bad reception, the stereo sound also can be disturbed.
- The broadcast sound type may not be saved if Power off.

Remarks on DVB-T system

DVB-T is at present still being developed. You can get information regarding the current stage of development from your specialist retailer.
As a digital service DVB-T basically works differently to previous analogue TV reception.

Reception Possibilities:
In contrast to cable TV, DVB-T is received via room or roof antennas. A room antenna is sufficient for reception within the reception area of a DVB-T transmitter. A roof antenna may perhaps be necessary for reception in a fringe area. Existing roof antennas may have to be turned in a different direction.
Contact your specialist retailer to find out about the location of the reception areas or fringe areas. You cannot get DVB-T reception outside the fringe area. Ask a certified antenna specialist for advice on interference with reception. The tuner of this appliance cannot provide active room antennas with operating voltage. Active room antennas have to be equipped with a separate power supply.

Reception Quality:
DVB-T reception principally either works really well or not at all. There is not a smooth transition with a constant reduction in reception quality. Digital interference occurs at maximum reception range:
the image freezes, the picture becomes blocky, the sound breaks up or reception cuts out altogether at times. If you notice interference with DVB-T reception then this is usually not due to a fault on the TV appliance. Please contact an antenna specialist if you have interference with reception. Inspection of the quality of DVB-T reception is not included in the free warranty to be provided by the manufacturer of the TV appliance.

Image and Sound Quality:
An individual transmitter transmits up to 4 TV channels on one transmission frequency. This is possible through compression in accordance with the MPEG standard, which is similar to digital data storage on a DVD. The data rate of DVB-T is just a lot lower; at present the max. video bit rate is approx. 4Mbps and the max. audio bit rate is at 256kbps. Visible interference (e.g. blocky picture) can result at extremely low data rates despite there being excellent reception quality within vicinity of the transmitter. Blocky pictures are no fault of the receiver. They are the result of the low data rate transmitted. The digital DVB-T sound can be transmitted to the digital amplifier via the digital output of your TV set.

Image Format
Images are transmitted in 4:3 format, 4:3 letterbox format (with black bars above and below the picture) and anamorphic 16:9 format (without black bars). The max. transmitted resolution at present is 704x576.

Child Lock
Like DVDs, DVB-T offers can also provide age-restricted access. At the moment, no channels are equipped with this restriction. This appliance does, however, already offer the feature of setting up password protected age restrictions, which only work when the respective programmes are broadcast.

DVB-T Update
The DVB-T norm earmarks the transfer of firmware updates. The transfer of firmware updates is called Over Air Download or OAD for short.
If this product happens to require a firmware update in future, this update could be received via DVB-T. If the available software for updating is detected, the confirmation message whether start the software to download is displayed. The rest please proceed to download-operation according to the directions of a TV screen.

EPG (Electronic Program Guide)
EPG is part of the DVB-T-signal with 8-days-schedule. This TV can receive and display the EPG-information included into DVB-T. This TV's EPG-Decoder will not work with cable- and Satellite-TV.

Password Setup (Parental lock)

Parental lock is a function of the channel provider. If it is not supported by the channel, parental lock is without function. Currently there are no channels supporting parental lock.

1 Press **MENU**. Select Child Lock option in Feature menu, then press ►.

2 'Password' will appear. Press '**0 0 0 0**' using the **Number buttons (0-9)**. (This is the default password.)

3 Select the desired option, then press ►.

Child Lock: To activate the Lock feature in Channel Management, select On with ▲/▼, then press **ENTER**.

Parental Lock: Press ▲ or ▼ to select desired parental rating, then press **ENTER**.

Change Pin Code:

- Old Password
  Enter the current password with Number buttons.
- New Password
  Enter your chosen new password (please call Service, if you have forgotten the new number).
- Confirm New Password
  After you have entered the new password, you need to enter the same password again for confirmation.

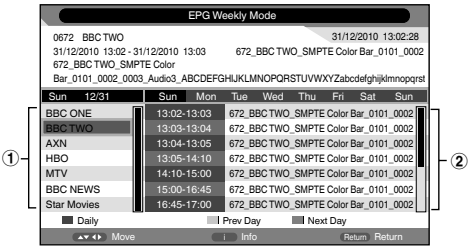
4 Press **RETURN** several times to return to the normal screen.

While toggling between channels, if a service which has a parental rating (higher than your setting) and you have set the Child Lock to On is selected, the channel will be locked. The password entering screen will appear. Then enter the password to view that channel.

EPG (Electronic Program Guide)

The Guide menu shows the available programme listings for the next 8 days only, including today.

1 Press **GUIDE (EPG)** to display the Guide menu.



① Service list :
Lists all the services that are currently available. As you scroll through the service list by pressing ▲ or ▼, the Event list will be refreshed accordingly.

② Events list :
List the events in a grid of rows.
Press ► to enter the Events list. You can press ▲ or ▼ to navigate through the rest of the events. You can easily move to the Previous day or Next day in the Events List by pressing **Yellow** or **Blue** button (the date of the programme information you are currently viewing is shown in the top left hand corner).

Note:

- You can change to Daily mode by pressing of **Red**.

2 From within the Events list, you can open the Event detail for the currently highlighted programme by pressing ***i***.

The Event detail shows the extended event description of an event.

To return to the Events list, press ***i***.
To clear the menu screen, press **MENU** or **RETURN**.

Using the Digital Service

Some services bring you programmes with the Digital Service, letting you experience DTV interactively.
When provided, the Digital Service will start when you press ☰.

Picture size and resolution

Resolution and picture quality
Broadcast wide screen films in different resolutions. The following table shows the resolution options for wide screen film broadcast media.

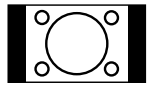
	Broadcast media						
Resolution of the wide screen signal	Analogue cable TV	Digital cable TV	DVB-T	Satellite (DVB-S)	DVD	HDTV Satellite (DVB-S2)	Blu-ray-Disc
432i x 768 (Letterbox)	Yes	Yes	Yes	Yes	Yes	Yes	No
576i x 768 (anamorphic)	No	Yes	Yes	Yes	Yes	Yes	No
720 x 1280 (HD)	No	Yes*	No	No	No	Yes	Yes
1080i x 1920 (HD)	No	Yes*	No	No	No	Yes	Yes
1080p x 1920 (HD)	No	No	No	No	No	No	Yes

* Digital Cable receiver with HDMI output required.

Best picture quality is achieved when the input signal has a resolution of 1920 x 1080i. If a signal with a lower resolution is input (e.g. analogue cable TV), there is a visibly poorer picture quality.
This is understandable as, if the same picture quality were available at a lower resolution, the broadcasting companies would not need to take the trouble to send the signal at the higher resolution.

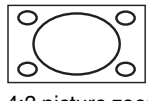
Why are there different resolutions?
Analogue cable TV uses a standardised TV signal. Each analogue 4:3- tube TV, however old it is, can process this signal. That is the advantage of standardisation. The disadvantage is that the resolution has not changed since the end of the Second World War. The resolution has been max. 576 x 768 for over 60 years.
For comparision: today's TVs feature a FullHD-resolution of 1080 x 1920.
The analog cable-network offers the 16:9-format at a low resolution of only 432 x 768. This input covers only 16% of a FullHD-screen's area. 84% of the screen would stay black, if the TV would not make up the rest by some special mathematics. 84% of what you see had been made up artificially by magnifying the tiny input-signal to full-screen-size. That's the reason for the analog cable-network's low picture-quality seen on every FullHD-TV.

Picture quality and black bars
Wide screen films come in different formats. The format is the relationship between the width and height of the picture. For example, with a 16:9 film the width to height ratio is 16:9 or 1.78:1. Only 16:9 films can fill a HD-ready screen without black bars. Therefore, black bars are always visible when a format other than 16:9 is received. E.g. 4:3, A 4:3 displays vertical black bars to the right and left.



4:3 picture 1:1 on 16:9 screen

If a 4:3 picture is increased to 16:9 format then it either appears distorted (see illustration) or some parts of the picture are cropped off at the top and the bottom. This is completely normal and is not a fault in the wide screen TV.



4:3 picture zoomed on 16:9 screen

Super Cinemascope films are wider than 16:9 films. They are in the format 2.4:1 or 22:9, for example. This is clearly wider than16:9. Therefore, Super Cinemascope films display black bars at the top and bottom on any HDTV set.

Picture format and resolution
There is no connection between the picture format and the resolution received. For example, the Super Cinemascope format can be received in all resolutions, even in the HD resolution1080ix1920. For HDTV reception too an HDTV set may display black bars at the top and bottom.

Picture format

Picture Size
The required picture format can be set by pressing the **PICTURE SIZE** button. Press **PICTURE SIZE** until the required format is displayed.
You move through the following formats when you press the button: Auto, 4:3, 16:9, 14:9, Cinema, Real (HDMI mode only).

Auto
The picture is automatically only then shown in a format-filling display when a WSS-TV signal is received.

Note:
- Auto is not available in Component mode.

Example:
If the analogue tuner receives a letterbox image with WSS signal then the resulting image looks like this:

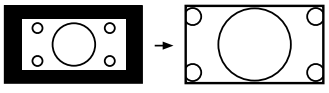
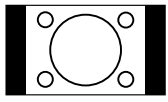


illustration 1:
Letterbox image is increased

WSS:
Public broadcasters include 16:9 identification, the WSS signal (WideScreenSignalling), during transmission in order to ensure automatic conversion to 16:9.
Some private broadcasters do not transmit a WSS signal. Automatic does not recognise anything without WSS signal and does not automatically alter the picture size. Use the **PICTURE SIZE** button to set the required picture size for private channels.

Other formats
Press **PICTURE SIZE** until the desired size is reached.

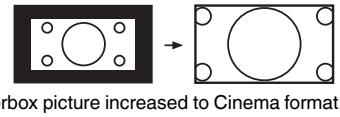
4:3
The picture is displayed in 4:3 format with black bars to the right and left.



16:9
The width of the picture will be zoomed evenly. **16:9** is particularly suitable for DVD players, DVB-T, DVB-C and satellite receivers, which can transmit and show 16:9 feature films without black bars. In the set-up menu of the set, adjust it to show that a 16:9 TV set is connected.

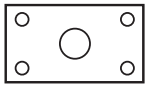
14:9
The picture is increased somewhat but not up to the full screen width. Black bars remain on the right and left and also at the top and bottom.

Cinema
Use Cinema to increase a small 4:3 letterbox signal. How do you recognise whether the broadcasting station / the set operating is using a 4:3 letterbox signal that is too low? Press the **PICTURE SIZE** button on the remote control until the 4:3 format appears. If the picture is surrounded by a black border as in the illustration, this is a 4:3 letterbox signal. Limited by the broadcasting station / the set operating, this signal is much too low for a 16:9 HD screen. Cinema increases this picture that is too small as far as possible. Natural visible poor focus emerges, rather as if a postcard were being increased to poster size. This unfocused appearance is conditioned by input signals that are too low and is in no way a production fault in this TV set.



4:3 Letterbox picture increased to Cinema format.

Real (HDMI mode only)
All images are displayed on the TV screen of 16:9 ratio without overscanning.



Note:
- In PC mode, the picture size feature is available only for 16:9- or 4:3- format.
- External receivers can automatically adjust the picture size via a SCART cable. Please read the instructions for the external receiver.
- If you select Real, the image might become a horizontal expansion according to the signal format.
  In this case, select an appropriate aspect with **PICTURE SIZE**.

Other convenience functions

You can change the default settings to convenience use.

Selected Items			Setup hint
Picture			
	Picture Mode		
		Standard	Standard picture quality (factory-set)
		Vivid	Enhanced picture contrast and sharpness (factory-set)
		Soft	Intended for bad-quality signals (factory-set)
		User	Your personal preferences
	Brightness / Contrast / Sharpness / Colour / Tint (available only when you selected “User” at Picture Mode)		You can adjust the picture to your preference. • Tint is available in NTSC-signal mode or Component/ HDMI-signal with 60Hz.
	Backlight (available only when you selected “User” at Picture Mode)		You can use the Backlight feature to adjust the screen brightness for improved picture clarity.
	Colour Temperature		Neutral (Standard) / Reddish (Warm) / Bluish (Cool)
	Noise Reduction		Sometimes it is not possible to input a high-quality HD signal. The actual signal input is too small and noisy, e.g. a video film in letterbox format, or a noisy analogue cable TV signal. This feature can slightly reduce interferences caused by the faulty input signal. • This option is not available in DTV, Component1080i/p, HDMI1080i/p and DVI mode.
		Off / Low / Middle / High	
	Reset		Select “Reset” to reset Picture options to the factory preset values.
Sound			
	Sound Mode		You can change the sound mode setting. If you select “User”, you can change the setting of Bass and Treble and TV memorizes your setting.
		Standard / Movie / Music / Speech / User	
	Bass / Treble / Balance		You can adjust the sound quality to your preference.
	Surround		The Surround feature processes the audio signal to expand the listening field wider and deeper to create a ‘pseudo surround-sound’ from the TV’s speakers. The feature works with stereo signals from TV broadcast or AV input.
		On / Off	
	Stable Sound		This will automatically adjust volume so each channel and input has the same average volume level.
		On / Off	
	Reset		Select “Reset” to reset Sound Mode, Bass, Treble and Balance to the factory preset values.
Channel			See page 12-13.

Other convenience functions

Selected Items			Setup hint
Feature			
	Child Lock		See page 16.
	Language		
		OSD Language	See page 12.
		Preferred Subtitle	Select preferred subtitle language, if the current watching DTV channel has more than one subtitle language. If the preferred subtitle language set here is not transmitted in the channel, the first displayed subtitle language in Subtitle language menu (P.13) is automatically selected. • This option is not available for ATV channel.
		Preferred Audio	Select preferred audio language, if the current watching DTV channel has more than one audio language. If the preferred audio language set here is not transmitted in the channel, the first displayed audio language in Audio language menu (P.13) is automatically selected. • This option is not available for ATV channel.
		Digital Teletext Language	If a DTV-channel name or information-display in the Channel banner (page 13) or EPG has a data of each language, the first preferred display language can be set here. • This option works also for continental countries. • In continental countries, if a DTV-channel has a Teletext data of each language, the first preferred Teletext language can be set here.
		Analogue Teletext Lang.	See page 14.
	Clock		
		Date	The date/time is displayed that is recognized on this unit. • You can not adjust the date/time manually.
		Time	
		Time Zone	If the time displayed on the Channel Information differs from the actual time, adjust the time offset until the correct time zone is shown. • Normally, this would be done by selecting “Auto”.
		DST	If DST is set to “On”, time is displayed one hour earlier. • This option is not available if you set Time Zone to Auto.
		On / Off	
	Sleep Timer		Sleep timer switches the TV to standby after a defined period of time. To cancel the Sleep Timer, set to “Off”.
		Off/15/30/45/60 Min	
	Auto Power Off		When the Set and Remote key operation are not operated with specified period by this setting(1/2/4 Hours), the power status is changed to stand by mode automatically.
		Off/1/2/4 Hour	
	Power On LED		To cancel the lighting of indicator (P.7 (2)) during operation, set to “Off”.
		On / Off	
	Hearing Impaired		The hearing impaired subtitle type is output preferentially. • Even if you set this option to On, the subtitle of Hearing Impaired is not displayed. Press [...] on the remote control to display the subtitle.
		On / Off	
	CI Info		You can access the Common Interface module information from this menu option. • This unit supports the C.I. card of “Top Up TV” and “Boxer”.

Other convenience functions

Selected Items			Setup hint
Setup			
	OSD Timer		The OSD is cleared automatically as per this setting. But if you select “Never”, the OSD is not cleared automatically .(Press **RETURN** to clear.)
		5/10/15/20/25/30 Seconds/Never	
	AV 1 Input		
		Auto	Factory setting, normally OK.
		RGB	when RGB is input.
		CVBS	when Composite is input.
		S-Video	When S-Video is input.
	PC Setup		See page 32.
	HDMI Mode		See page 33.
	Blue Back		You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent. • This option is not available for DTV, PC and Radio mode.
		On / Off	
	Reset TV Setting		Press ► to enter the Reset TV Setting screen. Press ◄ to select “OK”, then press **ENTER**. Reset the TV function will now begin, and this unit will automatically turn off.
	Software Upgrade		This option is not available because of service purpose only.
	Version		If you press ►, the µ-com’s software version is displayed.

Disc

DVD discs must be Region 2 or Region ALL type to play on this unit.
The loaded Disc (DVD and Audio-CD) will be recognized automatically.
The suitable disc formats are: DVD-Video, DVD-R/-RW (Video format only), Audio CD, Fujicolor CD, KODAK Picture CD and CD-R/CD-RW.
Some CD-R/RW discs may be incompatible.

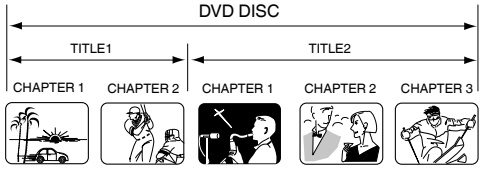
Example:

- This unit can play an 8cm disc. Please do not use a disc adapter. It may cause trouble.
- Please do not insert any disc of an irregular shape into the unit, as it may interfere with the function of the unit. You may not be able to remove it.
- If you tilt or move the unit while DVD or CD discs are placed inside, your discs may be damaged.
- Please do not use after market accessories, such as a ring protector, as this may cause trouble with the operation of the unit.
- Use only UDF (Universal Disc Format) discs for recording.
- When you play a movie that has been edited with a DVD recorder (partially deleted, etc), it may be paused for a moment where edited.
- When you play a movie that has been edited with a DVD recorder or such, it may not be played exactly as you edited it.

Disc type and logo mark		content
DVD Video	DVD VIDEO DVD VIDEO	Audio + Video (moving pictures)
CD-DA	COMPACT disc DIGITAL AUDIO	Audio
The following discs are also available. • DVD-R/RW discs of DVD video format and MP3/WMA/JPEG. • CD-R/RW discs of MP3/WMA/JPEG.		

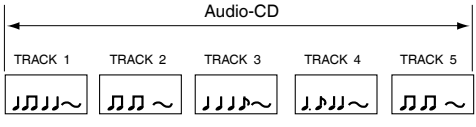
Do not play DVD-ROM, DVD-Audio, CD-G, Video CD, SVCD or Photo CD to prevent accidental erasure of prerecorded material.

Title
When two or more movies are recorded on a disc, the disc is divided into two or more sections. Each section is called a “TITLE”.



Chapter
The titles can be subdivided into many sections.
Each section is called a “CHAPTER”.

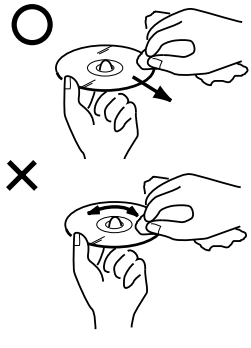
Track
An Audio CD can contain several items.
These are assigned to tracks.



Removing Disc from Case
Be sure to hold the edge of disc. Do not touch the surface of the disc.
Pick up the disc gently from the case.

- Do not scratch the disc.
- Do not get dirt on the surface of the disc.
- Do not stick a label or adhesive tape on the disc.
- Do not drop or bend the disc.

Storing Disc
- Store the disc in the case to avoid risk of scratches, dirt or damage.
- Do not leave disc exposed to direct sunlight or in hot or humid places.



Cleaning Disc
Wipe the disc with a clean, dry cloth from center to edge.
- Do not wipe in circular direction.
- Do not use liquid or aerosol cleaners.

Disc

PC-created disc compatibility

- You may not be able to play discs recorded using a personal computer or recorder for disc compatibilities, scratches or marks on the disc, dirty lenses of the unit or condensation and so on.
- Discs recorded using a personal computer may not be playable in this unit due to the setting of the application software used to create the disc. In these particular instances, check with the software publisher for more detailed information.

Playable files

- ISO 9660 Level 1 or 2 compliant.
  Romeo and Joliet file systems are both compatible with this player.
- DRM (Digital Rights Management) protected files will not play in this player.
  For detailed information, please see the instruction manuals or help files that came with your PC and/or software.
- File structure (may differ): Up to 299 folders on a disc; up to 648 files within each folder
- Folder and file names can be displayed as long as they are typed in alphabets and numbers. If folder and file names are other than alphabets and numbers, they may be replaced and displayed as "_". Garbled characters may also be displayed in this case.

Playing image files

JPEG files recorded in DVD-R/-RW and CD-R/-RW can be played.

JPEG file compatibility

- Image files should be saved in JPEG format.
- Files recorded in Fuji Colour CD, Kodak Picture CD or CD-R/-RW can be played.
- Compatible formats: Baseline JPEG and EXIF 2.2* still image files up to a resolution of 3072 x 2048.
  *File format used by digital still cameras.
- Files with extensions .jpg or .JPG can be played.
- Progressive JPEG formatted files do not work.
- It may take some more time to start to play larger files than usual.
- JPEG files with different aspect ratio may be displayed with black bands (either vertical or horizontal).

Playing Audio files

WMA and MP3 files recoded in DVD-R/-RW, CD-R/-RW can be played.

Windows Media Audio (WMA) compatibility

- WMA is an acronym for Windows Media Audio and refers to an audio compression technology developed by Microsoft Corporation.
- You can encode your files by using Windows Media Player Ver.7, 7.1, Windows Media Player for Windows XP or Windows Media Player 9 Series.
- When encoding your files, use only applications approved by Microsoft Corporation. If you use non-approved application, it may not work properly.
- This unit is compatible with audio files recorded with the following sampling frequency: 32 kHz, 44.1 kHz and 48 kHz.
- It is not compatible with loss-less encoding.
- Files with extensions .wma or .WMA can be played.

Playing MP3 (MPEG-1 Audio Layer-3) files

- This unit is compatible with audio files recorded with the following sampling frequency: 32 kHz, 44.1 kHz and 48 kHz.
- Files with extensions .mp3 or .MP3 can be played.
- For the best quality of sound, 128 kbps or higher bit rate is recommended.

Copy Control CD (CCCD)

This product is designed to conform to CD-DA (Compact Disc Digital Audio). Any other discs than CD-DA are not guaranteed with their operation and performance in this product.

Playing a disc

This section shows you the basics on how to play a disc.

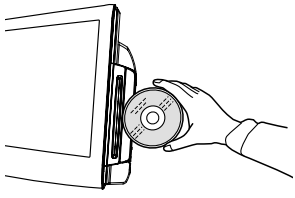
Basic playback (DVD/Audio CD)

Preparation

Make sure that the ⏻ **(Power)** key on the unit is pressed (ON). (The ⏻ (Standby/On) indicator lights up.)

1 Press **TV/DVD** on the remote control to select the DVD mode.

2 Place the disc in the disc slot with the label side facing forward. (If the disc has a label.)



- Do not place a disc which is unplayable in this unit.

3 On the TV-screen, "⏏" changes to "Loading" and then playback commences.
- A menu screen will appear on the TV screen if the disc has a menu feature.
- Press ▲/▼/◄/► to select title, then press **ENTER**.
  Title is selected and play commences.

4 Press ■ to end playback.
- The unit can record where you stop a video, but it depends on a disc you are using.
  Press **PLAY (►)** to resume a playback point.
  The unit can store a memory of stopped point of last five discs that you have played. When one of these discs is next loaded, you can resume playback from where you stopped playing last time.
- If you press ■ again ("Resume off" appears on the screen.), the unit will clear the memory of its stopped point.
- It is only DVD videos that a stopped point can be stored in the unit with.
- You cannot save a stopped point for some discs.
  If a number of discs played and stored in the unit exceeds five, a new memory will overwrite the old stored memory.

To start playback in the stop mode

Press **PLAY (►)**.

Note:

- **If the unit does not operate property:**
  Static electricity, etc., may affect the player's operation.
  Disconnect the AC power cord once, then connect it again.
- If a disc is inserted during some modes other than DVD mode, it may switch to DVD mode and then playback may be begun automatically.

To pause playback (still mode)

Press ❚❚ during playback.
To resume normal playback, press **PLAY (►)**.

- The sound is muted during still mode.

To stop playback

Press ■.

To remove the disc

Press ⏏.

Remove the disc after the disc comes out.
- Using inferior discs may result that you cannot remove the disc. In this case, press **PLAY (►)** to play the disc and then press **EJECT ⏏**.

Note:

- If a non-compatible disc is loaded, "Can't play disc" or "Incompatible disc region number Can't play disc" will appear on the TV screen according to the type of loaded disc. In this case, check your disc again (see page 22).
- Some discs may take a minute or so to start playback.
- When you set a single-faced disc label backwards (i.e. the wrong way), "Loading" will appear on the display for a few minutes and then "Can't play disc" will continue to be displayed.
- Some playback operations of DVDs may be intentionally fixed by software producers. Since this unit plays DVDs according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the DVDs.
- Do not move the unit during playback. Doing so may damage the disc.
- In many instances, a menu screen will appear after playback of a movie is completed. Prolonged display of an on-screen menu may damage your television set, permanently etching that image onto its screen. To avoid this, be sure to press **Power (⏻)** on your remote control once the movie is completed.
- There may be a slight delay between the button is pressed and the function activates.

Playing in fast reverse or fast forward directions (DVD/Audio CD)

Press ◄◄ or ►► during playback.
◄◄: Fast reverse playback
►►: Fast forward playback
Each time you press ◄◄ or ►►, the playback speed changes.

To resume normal playback

Press **PLAY (►)**.

Note:

- The unit mutes sound during reverse and forward scan of DVD discs.
- The playback speed may differ depending on the disc.

Playing frame by frame (DVD)

Press ❚❚ during playback.
Each time you press ◄◄ or ►►, the picture advances one frame.

To resume normal playback

Press **PLAY (►)**.

Note:

- The sound is muted during frame by frame playback..

Playing in slow-motion (DVD)
Press ◄❙ or ❙► during playback.
Each time you press ◄❙ or ❙►, the slow-motion speed changes.

To resume normal playback
Press **PLAY (►)**.

Note:
- The sound is muted during slow-motion playback.

Locating a chapter or track (DVD/Audio CD)
Press ❙◄◄ or ►►❙ repeatedly to display the chapter or track number you want.
Press ►►❙ to playback starts from the selected chapter or track.

Press ❙◄◄ to locate succeeding chapters or tracks.

Playback starts from the beginning of the current chapter or track.

Note:
- A prohibition message “Depending on the disc, this operation may be prohibited” or “This operation can’t be performed” may appear at the screen. This message means either the feature you tried is not available on the disc, or the unit cannot access the feature at this time. This does not indicate a problem with the unit.

Zooming (DVD)

This unit will allow you to zoom in on the frame image. You can then make selections by switching the position of the frame.

1 Press **ZOOM** during playback.

The centre part of the image will be zoomed in. Each press of **ZOOM** will change the ZOOM x2 and x4.

2 Press ▲/▼/◄/► to view a different part of the frame.
You may move the frame from the centre position to UP, DOWN, LEFT or RIGHT direction.

3 In the zoom mode, press **ZOOM** repeatedly to return to a 1:1 view.

Note:
- You can select the Pause or Slow in the zoom mode.
- Some discs may not respond to zoom feature.

Locating desired scene (DVD/Audio CD)

Use the title, chapter or track recorded on the disc to locate the desired point to playback.
To check the title and chapter/track, press ***i***.

1 Press **Number buttons (0–9)** to input the number during playback or stop mode.

- If you input a wrong number, press **CANCEL**.
- Refer to the package supplied with the disc to check the numbers.

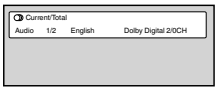
2 Press **ENTER**. Playback starts.

- When you change the title, playback starts from Chapter 1 of the selected title.
- Some discs may not work in the above operation.

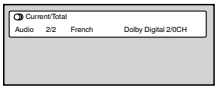
Changing Soundtrack Language (DVD)

You can select the language when you play a multilingual disc.

1 Press **AUDIO** during playback.
The current soundtrack language will appear.



2 Press **AUDIO** repeatedly until the desired language is selected.

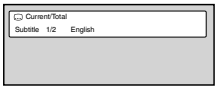


- The on screen display will disappear after a few seconds.

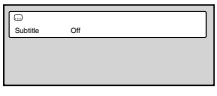
Subtitles (DVD)

When playing back a disc recorded with subtitles, you can select the subtitle language or turn the subtitle off.

1 Press 💬 repeatedly during playback until the desired language is selected.



2 To turn off the subtitle, press 💬 until “Off” appears.



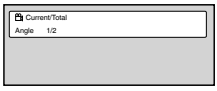
- The on screen display will disappear after a few seconds.

Note:
- If the desired language is not heard after pressing the button several times, the language is not recorded on the disc.
- The selected soundtrack language is cancelled when you eject the disc. The initial default language or available language will be heard if the disc is played back again. It does not go back to the initial default language if the unit has a resuming memory.
- When you want to play DTS audio, connect this unit to a DTS-compatible amplifer or decoder using a digital audio cable.
- Depending on the DVD, you may not be able to change subtitles, or to turn subtitles on or off.
- While playing a DVD, the subtitle may change when you loaded or eject the disc.
- In some cases, a selected subtitle language may not be changed immediately.

Changing angles (DVD)

When playing back a disc recorded with multi-angle facility, you can change the angle that you are viewing the scene from.

1 Press **ANGLE** during playback.
The current angle will appear.



2 Press **ANGLE** repeatedly until the desired angle is selected.

Note:
- Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

Title selection (DVD)

Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

1 Press **TOP MENU** during playback.
Title menu appears on the screen.

2 Press ▲/▼/◄/► to select the desired title.

3 Press **ENTER**.
The playback of the selected title will start.

Note:
- Some DVDs allow you to select the disc contents using the menu.
- When you playback these DVDs, you can select the subtitle language and soundtrack language, etc. using the menu.

DVD menu (DVD)

Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

1 Press **DVD MENU** during playback.
The DVD menu appears on the screen.
- Press **DVD MENU** again to resume playback at the scene when you pressed **DVD MENU**.

2 Press ▲/▼/◄/► to select the desired item.

3 Press **ENTER**.
The menu continues to another screen. Repeat steps 2 and 3 to set the item completely.

Note:
- Depending on the DVD, you may not be able to resume playback from the scene point when you press **DVD MENU**.

Disc status

With press of ***i***, the status of the disc will appear on the screen. To cancel the display, press ***i*** repeatedly.
- Display messages may change at every time when you press ***i*** for some discs or files.

Using HOME MENU

Playing a disc

1 Press **SETUP** during stop mode.
HOME MENU will appear.

2 Press ▲/▼/◄ /► to select “Disc Navigator”, then press **ENTER**.

3 Press ▲/▼ to select desired option, then press **ENTER.**

- Some discs may not work Disc Navigator.
- Depending on a disc, you can select Title, Chapter, or both.

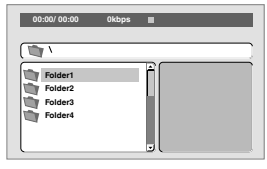
4 Press ▲/▼/◄/► or **Number Buttons (0-9)** to select Title, Chapter, Track or Time, then press **ENTER**.
- Press ⏮ or ⏭ to move next/previous page.
- Press **RETURN** to go to previous step.

Playing a file

1 Press **SETUP** during stop mode.
HOME MENU will appear.

2 Press ▲/▼/◄/► to select “Disc Navigator”, then press **ENTER**.

3 Press ▲/▼ to select folder, then press **ENTER**.



4 Press ▲/▼ to select file, then press **ENTER**.
- If you select JPEG file, unit shows the pictures one after another automatically.
- Press **RETURN** to return to previous step screen.
- Press **SETUP** to exit the menu.

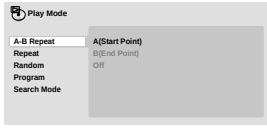
Note:
- When music files and JPEG files are recorded in one disc, you can play simultaneously. Please select the music file then select the JPEG file.

Play mode

A-B repeat playback

A-B repeat playback allows you to repeat selection between two selected points.

1 Press **PLAY MODE** during playback. Play Mode screen will appear.



2 Press ▲/▼ to select “A-B Repeat”, then press ► or **ENTER**.

3 Press ▲/▼ to select “A(Start Point)”, then press **ENTER**. The start point is selected.

4 Press ▲/▼ to select “B(End Point)”, then press **ENTER**.
The end point is selected. Playback starts at the point that you selected. Playback stops at the end point and returns to Point A automatically, then starts again.

To resume normal playback
Select “Off” in step 3.

Note:
- Some discs may not work Play mode function.
- A-B Repeat playback does not work with MP3/ WMA CD.

Repeat playback

1 Press **PLAY MODE** during playback. Play Mode screen will appear.

2 Press ▲/▼ to select “Repeat”, then press ► or **ENTER**.

3 Press ▲/▼ to select desired repeat option, then press **ENTER**.
The unit automatically starts repeat playback after finishing the current title or chapter.

To resume normal playback
Select “Repeat Off” in step 3.

Note:
Some discs may not work with the repeat operation.

Random playback

1 Press **PLAY MODE** during playback. Play Mode screen will appear.

2 Press ▲/▼ to select “Random”, then press ► or **ENTER**.

3 Press ▲/▼ to select desired random playback option, then press **ENTER**.
The unit automatically starts random playback.

To resume normal playback
Select “Random Off” in step 3.

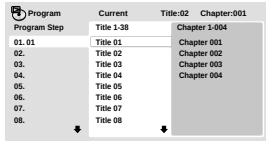
Note:
- During Random playback, it may repeat the same title, chapter or track.
- In stop mode, you can also enter Play Mode screen by selecting “Play Mode” in HOME MENU.

Program playback

1 Press **PLAY MODE** during playback. Play Mode screen will appear.

2 Press ▲/▼ to select “Program”, then press ► or **ENTER**.

3 Press ▲/▼ to select “Create/ Edit”, then press **ENTER**. “Create/ Edit” display differs, depending on discs or files.



4 Press ▲/▼/◄/► to select Title, Chapter or File, then press **ENTER**.
- When you add a program, find where you want to add it (Program Step) and select Title, Chapter or Track then press **ENTER**. (It will be added to the bottom if File is added.)
- To go to previous step, press **RETURN**.
- To delete a program, select Program Step that you want to delete and press **CANCEL**.

5 Press **PLAY (►)**.
- To play existing programmed contents, select “Playback Start” from Play Mode screen and press **ENTER**.
- To delete all programmed contents, select “Program Delete” in Play Mode screen and press **ENTER**.

Note:
- You can repeat the programmed contents. Select “Program Repeat” from “Repeat” in the Play Mode screen during Program playback.
- In stop mode, you can also enter Play Mode screen by selecting “Play Mode” in HOME MENU.

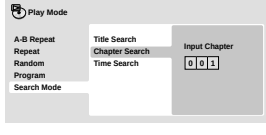
Locating desired scene

1 Press **PLAY MODE** during playback. Play Mode screen will appear.

2 Press ▲/▼ to select “Search Mode”, then press ► or **ENTER**.

3 Press ▲/▼ to select desired search mode option, then press ► or **ENTER**.
- Search Mode options differs, depending on discs or files.

4 Input Title, Chapter, Track or Folder number or time by using **Number buttons (0-9)** and press **ENTER**.



- For instance, if you want to enter 1hr 4min (64:00), input 6, 4, 0, 0.

Note:
- You can locate desired scene in Menu screen for some DVD video.
- In stop mode, you can also enter Play Mode screen by selecting “Play Mode” in HOME MENU.

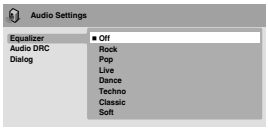
Audio Settings menu

The Audio Settings menu offers features for adjusting the way discs sound.

1 Press **SETUP** during stop mode.
HOME MENU will appear.

2 Press ▲/▼/◄/► to select “Audio Settings”, then press **ENTER**.

3 Press ▲/▼/◄ /► to setting the option, then press **ENTER**.



4 Press **SETUP** to save the setting.

Equalizer
Select the most suitable setting to match a category of music that you are listening to.

Audio DRC
- Loud sound level goes down and quiet sound level goes up while playing. This is useful, for instance, when you watch a film in the late night.
- It only works with Dolby Digital Sound.
- The effect depends on your AV amplifier and speakers volume. Adjust the sound as you wish and find the most effective setting.

Dialog
Adjust setting when you cannot hear dialogs very well.

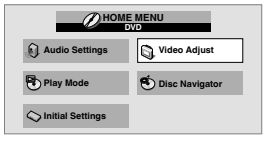
Note
- It may not be very effective for some discs or files.

Video Adjust menu

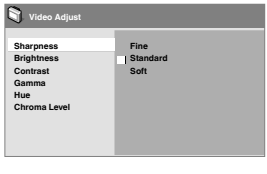
From the Video Adjust menu you can adjust various settings that affect how the picture is presented.

1 Press **SETUP** during stop mode.
HOME MENU will appear.

2 Press ▲/▼/◄/► to select “Video Adjust”, then press **ENTER**.



3 Press ▲/▼/◄ /► to setting the option, then press **ENTER**.



4 Press **SETUP** to save the setting.

Sharpness
Adjust sharpness of images.

Brightness
Adjust brightness of images.

Contrast
Adjust a ratio of brightness between the brightest part and the darkest part.

Gamma
Emphasize dark part of images.

Hue
Adjust a balance between green and red.

Chroma Level
Adjust color density. It is effective with animation or something with high color density.

Note
- It may not be very effective for some discs or files.

Customizing The Function Settings

You can change the default settings to customize performance to your preference.

Setting procedure

1 Press **SETUP** in stop mode.
HOME MENU will appear.

2 Press ▲/▼/◄/► to select “Initial Settings”, then press **ENTER**.

3 Press ▲/▼/◄/► to select the desired option, then press **ENTER**.

4 Change the selection using ▲/▼/◄/► or **ENTER**, by referring to the corresponding page 29.
- Repeat steps 3 and 4 to change other option.

5 To clear HOME MENU screen, press **SETUP**.

Customizing The Function Settings

Setting	Option	Setup hint
Digital Audio Out settings		
Digital Out	On	Digital audio is output when playing a disc.
	Off	Digital audio is not output when playing a disc.
Dolby Digital Out	Dolby Digital	Dolby Digital encoded digital audio is output when playing a Dolby Digital DVD disc.
	Dolby Digital > PCM	Dolby Digital audio is converted to PCM audio before being output.
DTS Out	DTS	DTS encoded digital audio is output when playing a DTS disc. (Noise will be output if your amplifier/receiver is not compatible with DTS audio.)
	Off	DTS encoded digital audio is not output when playing a DTS disc.
96kHz PCM Out	96kHz > 48kHz	96 kHz digital audio is converted to 48 kHz for digital output.
	96kHz	96 kHz digital audio is output as is at 96 kHz.
MPEG Out	MPEG	MPEG encoded digital audio is output as is.
	MPEG > PCM	MPEG encoded digital audio is converted to PCM audio for digital output.
Video Output settings		
TV Screen	4:3 (Letter Box)	Set Picture Size to Natural. Widescreen movies are shown with black bars top and bottom.
	4:3 (Pan & Scan)	Set Picture Size to Natural. Widescreen movies are shown with the sides cropped so that the image fills the screen.
	16:9 (Wide)	Set if you have a widescreen TV.
NTSC Out	NTSC	Display the picture of NTSC discs as NTSC-TV system.
	NTSC > PAL	Display the picture of NTSC discs converting to PAL-TV system.
Language settings		
Audio Language	English	If there is an English soundtrack on the disc then it will be played.
	Languages as displayed	If there is the language selected on the disc, then it will be played.
	Other Language	Select to choose a language other than the ones displayed. (see Language Code List on page 31)
Subtitle Language	English	If there is an English subtitle on the disc, then it will be displayed.
	Languages as displayed	If there is the subtitle language selected on the disc, then it will be displayed.
	Other Language	Select to choose a language other than the ones displayed. (see Language Code List on page 31)
DVD Menu Lang.	w/Subtitle Lang.	DVD disc menus will be displayed in the same language as your selected subtitle language, if possible.
	Languages as displayed	DVD disc menus will be displayed in the selected language, if possible.
	Other Language	Select to choose a language other than the ones displayed. (see Language Code List on page 31)
Subtitle Display	On	Subtitles are displayed according to your selected subtitle language (see above).
	Off	Subtitles are always off by default when you play a DVD disc (note that some discs override this setting).
Display settings		
OSD Language		On-screen displays are shown in the language selected.
Angle Indicator	On	A camera icon is displayed on-screen during multi-angle scenes on a DVD disc.
	Off	No multi-angle indication is shown.
Options settings		
Parental Lock		See page 30.

Parental Control

Some discs are specified as not suitable for children. Such discs can be limited not to playback with the unit.

How to into the Parental menu

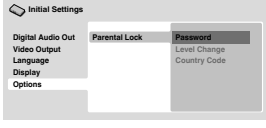
1 Press **SETUP** in stop mode.
HOME MENU will appear.

2 Press ▲/▼/◄/► to select “Initial Settings”, then press **ENTER**.

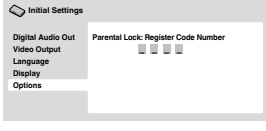
3 Press ▲/▼ to select “Options”, then press ►. Then press ► to enter the Parental Lock menu.

Set Password

1 Press ▲ or ▼ to select “Password”, then press **ENTER**.

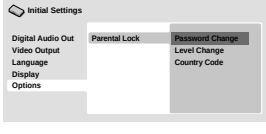


2 Press **Number buttons (0–9)** to input the password, then press **ENTER**.

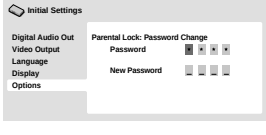


Change Password

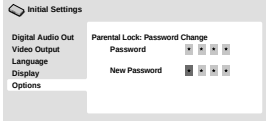
1 Press ▲ or ▼ to select “Password Change”, then press **ENTER**.



2 Press **Number buttons (0–9)** to input the current password, then press **ENTER**.

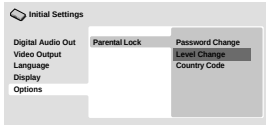


3 Press **Number buttons (0–9)** to input the new password. Press **ENTER**. Now your new password has been set. Be sure to remember this number!

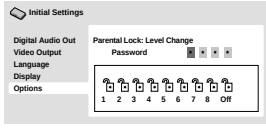


Level Change

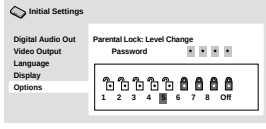
1 Press ▲ or ▼ to select “Level Change”, then press **ENTER**.



2 Press **Number buttons (0–9)** to input the current password, then press **ENTER**.



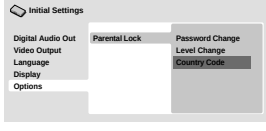
3 Press ◄ or ► to select from the level 1 to level 8. The limitation will be more severe as the level number is lower. Then press **ENTER**.



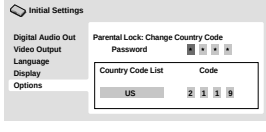
Level 1: DVD software for adults cannot be played back.
Level 8: Virtually all DVD software can be played back.
Level Off: The parental control setting does not function.

Country Code

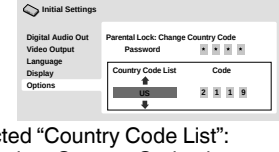
1 Press ▲ or ▼ to select “Country Code”, then press **ENTER**.



2 Press **Number buttons (0–9)** to input the current password, then press **ENTER**.



3 Press ▲ or ▼ to select the input mode from “Country Code List” or “Code”.



- When you selected “Country Code List”: Press ▲ or ▼ to select Country Code, then press **ENTER**.
- When you selected “Code”: Press ► then use the **Number buttons (0-9)** to enter the 4-digit Country Code. Press **ENTER**. (see Country/Area Code List on page 31)

Note:
- Depending on the discs, the unit cannot limit playback.
- Some discs may not be encoded with specific rating level information though its disc jacket says “adult.” For those discs, the age restriction will not work.
- If you input a wrong number, press ◄, then input correct number.

Language Code List

Language (Language code letter), **Language code**

Japanese (ja), **1001**
English (en), **0514**
French (fr), **0618**
German (de), **0405**
Italian (it), **0920**
Spanish (es), **0519**
Chinese (zh), **2608**
Dutch (nl), **1412**
Portuguese (pt), **1620**
Swedish (sv), **1922**
Russian (ru), **1821**
Korean (ko), **1115**
Greek (el), **0512**
Afar (aa), **0101**
Abkhazian (ab), **0102**
Afrikaans (af), **0106**
Amharic (am), **0113**
Arabic (ar), **0118**
Assamese (as), **0119**
Aymara (ay), **0125**
Azerbaijani (az), **0126**
Bashkir (ba), **0201**
Byelorussian (be), **0205**
Bulgarian (bg), **0207**
Bihari (bh), **0208**
Bislama (bi), **0209**
Bengali (bn), **0214**
Tibetan (bo), **0215**
Breton (br), **0218**
Catalan (ca), **0301**
Corsican (co), **0315**
Czech (cs), **0319**
Welsh (cy), **0325**
Danish (da), **0401**
Bhutani (dz), **0426**
Esperanto (eo), **0515**
Estonian (et), **0520**
Basque (eu), **0521**
Persian (fa), **0601**
Finnish (fi), **0609**
Fiji (fj), **0610**
Faroese (fo), **0615**
Frisian (fy), **0625**
Irish (ga), **0701**
Scots-Gaelic (gd), **0704**
Galician (gl), **0712**
Guarani (gn), **0714**
Gujarati (gu), **0721**
Hausa (ha), **0801**
Hindi (hi), **0809**
Croatian (hr), **0818**
Hungarian (hu), **0821**
Armenian (hy), **0825**
Interlingua (ia), **0901**
Interlingue (ie), **0905**
Inupiak (ik), **0911**
Indonesian (in), **0914**
Icelandic (is), **0919**
Hebrew (iw), **0923**
Yiddish (ji), **1009**
Javanese (jw), **1023**
Georgian (ka), **1101**
Kazakh (kk), **1111**
Greenlandic (kl), **1112**
Cambodian (km), **1113**
Kannada (kn), **1114**
Kashmiri (ks), **1119**
Kurdish (ku), **1121**
Kirghiz (ky), **1125**
Latin (la), **1201**
Lingala (ln), **1214**
Laothian (lo), **1215**
Lithuanian (lt), **1220**
Latvian (lv), **1222**
Malagasy (mg), **1307**
Maori (mi), **1309**
Macedonian (mk), **1311**
Malayalam (ml), **1312**
Mongolian (mn), **1314**
Moldavian (mo), **1315**
Marathi (mr), **1318**
Malay (ms), **1319**
Maltese (mt), **1320**
Burmese (my), **1325**
Nauru (na), **1401**
Nepali (ne), **1405**
Norwegian (no), **1415**
Occitan (oc), **1503**
Oromo (om), **1513**
Oriya (or), **1518**
Panjabi (pa), **1601**
Polish (pl), **1612**
Pashto, Pushto (ps), **1619**
Quechua (qu), **1721**
Rhaeto-Romance (rm), **1813**
Kirundi (rn), **1814**
Romanian (ro), **1815**
Kinyarwanda (rw), **1823**
Sanskrit (sa), **1901**
Sindhi (sd), **1904**
Sangho (sg), **1907**
Serbo-Croatian (sh), **1908**
Sinhalese (si), **1909**
Slovak (sk), **1911**
Slovenian (sl), **1912**
Samoan (sm), **1913**
Shona (sn), **1914**
Somali (so), **1915**
Albanian (sq), **1917**
Serbian (sr), **1918**
Siswati (ss), **1919**
Sesotho (st), **1920**
Sundanese (su), **1921**
Swahili (sw), **1923**
Tamil (ta), **2001**
Telugu (te), **2005**
Tajik (tg), **2007**
Thai (th), **2008**
Tigrinya (ti), **2009**
Turkmen (tk), **2011**
Tagalog (tl), **2012**
Setswana (tn), **2014**
Tonga (to), **2015**
Turkish (tr), **2018**
Tsonga (ts), **2019**
Tatar (tt), **2020**
Twi (tw), **2023**
Ukrainian (uk), **2111**
Urdu (ur), **2118**
Uzbek (uz), **2126**
Vietnamese (vi), **2209**
Volapük (vo), **2215**
Wolof (wo), **2315**
Xhosa (xh), **2408**
Yoruba (yo), **2515**
Zulu (zu), **2621**

Country/Area Code List

Country/Area, Country/Area code, Country/Area code letter

Argentina, **0118**, **ar**
Australia, **0121**, **au**
Austria, **0120**, **at**
Belgium, **0205**, **be**
Brazil, **0218**, **br**
Canada, **0301**, **ca**
Chile, **0312**, **cl**
China, **0314**, **cn**
Denmark, **0411**, **dk**
Finland, **0609**, **fi**
France, **0618**, **fr**
Germany, **0405**, **de**
Hong Kong, **0811**, **hk**
India, **0914**, **in**
Indonesia, **0904**, **id**
Italy, **0920**, **it**
Japan, **1016**, **jp**
Republic of Korea, **1118**, **kr**
Malaysia, **1325**, **my**
Mexico, **1324**, **mx**
Netherlands, **1412**, **nl**
New Zealand, **1426**, **nz**
Norway, **1415**, **no**
Pakistan, **1611**, **pk**
Philippines, **1608**, **ph**
Portugal, **1620**, **pt**
Russian Federation, **1821**, **ru**
Singapore, **1907**, **sg**
Spain, **0519**, **es**
Sweden, **1905**, **se**
Switzerland, **0308**, **ch**
Taiwan, **2023**, **tw**
Thailand, **2008**, **th**
United Kingdom, **0702**, **gb**
USA, **2119**, **us**

PC connection

Follow these steps: On your PC monitor choose a resolution of 1360 × 768 at 60Hz and save this configuration. Shut down your PC and connect the shut off LCD TV.
Use a screensaver to avoid burning-in of static picture content.

Select PC input

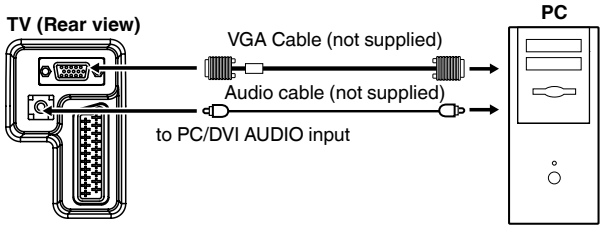
Switch on the LCD-TV.
Select the PC input mode (see page 12).

Note:

- If no signal or a signal with a non-supported resolution is connected, No Signal is displayed
- As this LCD-TV is not a PC monitor correct display cannot be guaranteed for every PC / graphics card.

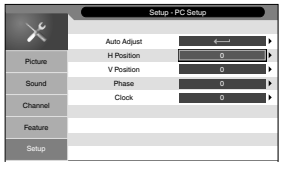
Supported PC resolutions	
resolution	fps (Hz)
640x480	60
800x600	60
1024x768	60
1280x720	60
1280x768	60
1360x768	60
1280x1024	60
1440x900	60
1920x1080	60

Use a PC-VGA cable (not supplied) to connect the LCD-Monitor to your PC. Make the connections carefully so as not to break or bend the contacts inside the plug.



Example: Adjust the H Position.

1 During PC mode press **MENU**.



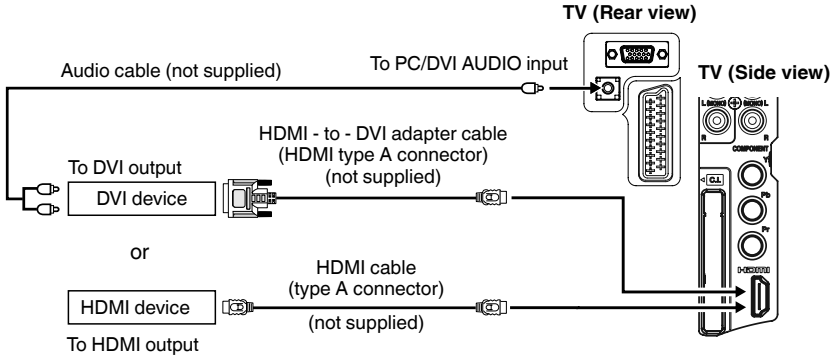
2 Select Setup/PC Setup/H Position, then press **ENTER**.
Press ◄ or ► to adjust H Position.

3 Press **RETURN** several times to return to the normal screen.

Selected Items			Setup hint
Setup			
	PC Setup		
		Auto Adjust	H Position, V Position, Phase and Clock are adjusted automatically as per the input PC video signal. • When PC-input mode was selected and a PC-signal was input, Auto Adjust will be performed automatically.
		H Position	To adjust the horizontal placing of the image.
		V Position	To adjust the vertical placing of the image.
		Phase	Eliminates the horizontal (PHASE) interfering lines.
		Clock	Eliminates the vertical (CLOCK) interfering lines.

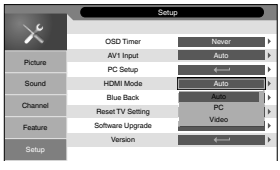
Connecting an HDMI or a DVI device to the HDMI input

The HDMI input receives digital audio and uncompressed video from a HDMI equipped device or uncompressed digital video from a DVI equipped device.
When you connect to a DVI device with a HDMI-to-DVI adapter cable, it only transfers the video signal, so it is necessary to use separate analogue leads to transfer the audio signals.
Select the HDMI input mode (see P.12).



Selecting the HDMI signal

1 Select Setup/HDMI Mode option.



2 Then press ▲ or ▼ to select the desired mode. Then press ►.

Auto: Auto (factory setting), can remain in this mode. Change not necessary.
PC: PC (for PC), if desired.
Video: Video (for Video), if desired.

3 Press **MENU** to exit the menu.

Note:
- Please notice the operating manual for the HDMI device to be set up.

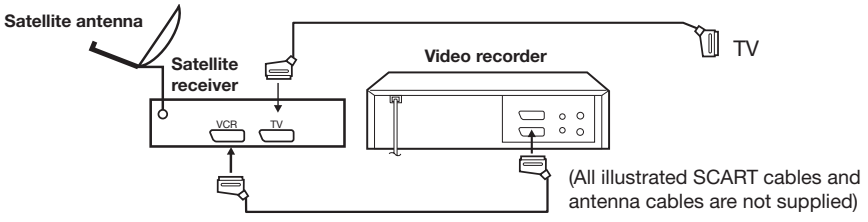
Connection to other equipment

1. Connecting to other equipment

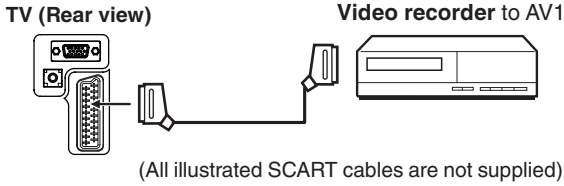
Attention: Preparation:

- Disconnect all equipment from the AC-supply, to prevent any possible damage.
- Make the necessary connections.
- Make sure all connections are safe & secure before reconnecting your equipment the AC-supply.

Please connect your satellite-receiver or DVD player via SCART (AV1). Make sure your SCART cable's cross-section is at least 1 cm or more. SCART cables with less thickness may cause visible noise.
Please make the following settings inside your receiver's / DVD-player's setup-menu:
Video signal: RGB
TV-Format: 16:9
If you miss to make these settings properly, picture quality will be inferior and parts of the picture might be missing. This is not a fault of this TV-set.
In case you need help to make this adjustment with your satellite-receiver / DVD-player, please consult the related instructions or contact the supplier or maker of those apparatus for support.
Please use the satellite's remote-control handset to select Teletext or desired TV-station. Generally it is not possible to store satellite TV-stations into a standard TV.
If the TV does not automatically switch to AV-1, please select INPUT AV1 manually, as seen on page 12.



2. Connect video recorder (e.g. to record from DVB-T)



(All illustrated SCART cables are not supplied)

Note:

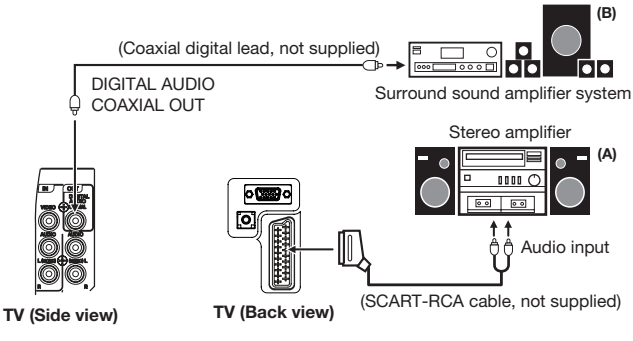
- Programme the video recorder timer to the desired time. The TV appliance cannot switch the video recorder on or off.
- In external input mode, Analogue TV-signal will be output from SCART socket.
- When the scrambled DTV channel is received, it is not output from SCART even if the scramble has been released by the CI card.

3. Connecting an audio system

You can supply the TV sound to the stereo equipment (A) with the SCART socket. Use a special SCART cable for the connection which sold at the accessory shop. (please consult your hi-fi instructions for details). If you have a surround sound amplifier/decoder (B) with a coaxial digital input, you can connect the Coaxial Digital Audio Output to it, using a suitable coaxial digital lead.

Note:

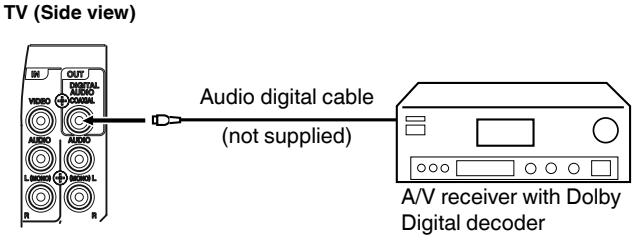
- You can hear only the sound received with a built-in tuner in the connection of (A), but you can not hear the sound input to an external input terminal.
- The Balance/Bass/Treble adjustments (see P.19) only function with the sound from the TV speakers - it does not affect the audio output sockets.



Connection to other equipment

4. Connection of a digital amplifier or digital A/V receivers (with DTS or Dolby Digital Decoder)

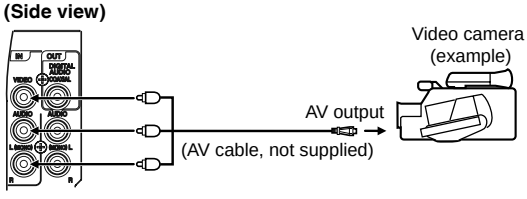
DTS and Dolby Digital are two different systems. DTS-DVDs cannot be played with a Dolby Digital receiver. Please use in this case a decoder that matches your DVDs.



- After connecting a DD decoder please select in the DVD menu the Dolby Digital (DD) sound track option.
- Several DVDs may be pre-recorded on both sides however only one side contains the DD sound track. Please insert the correct DVD side.
- When a DTS sound track is played the integrated loudspeakers are mute. The DTS sound can only be played digitally using the digital outlet. For hearing a DTS decoder is necessary.
- Digital audio output is active only when receiving DVB-T, not when receiving analog cable TV broadcasting.

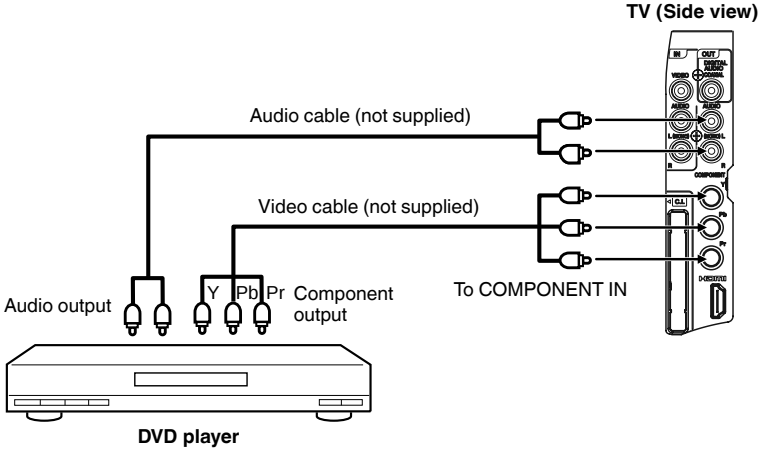
5. Connecting a Video camera or Games console to AV-2

Select the AV-2 input mode (see P.12).



6. Connecting to a DVD player or other AV device with Component Video outputs

If your DVD player (or other device) has Component Video output jacks, use a suitable set of leads (RCA/Phono) to connect these to the Component Video inputs on this TV as shown - it can greatly enhance the picture quality and performance. Please remember that you will also need to connect separate leads (RCA/Phono) for the audio signals. Select the COMPONENT input mode (see P.12).



Note:

- The Component Video input of this unit are for use with equipment which outputs interlaced signals (PAL: 576i/1080i or NTSC: 480i/1080i) and progressive signals (PAL: 576p/720p or NTSC: 480p/720p).

Troubleshooting table

Please check the following list before requesting service.

Symptom	Possible solution	Page
TV		
No picture, no sound	Switch on the set. Check that the mains power outlet is properly connected. Select appropriate input mode. Unplug unit for 1 minute, then plug it back in.	7 12
No reception with built-in tuner.	Do not connect SCART cable at first. Select input ATV or DTV. On the remote control press the 1-key once and release. Connect the antenna. Try another antenna.	12 10 10
The TV switches off with missing antenna or external input signal	This is normal. 15 minutes after the antenna or external input signal has disappeared, the set will change to standby mode. (in PC input mode: after 2 minutes)	 14
Channel option cannot be selected.	The unit is set to AV mode. Press **1** on the remote control.	12
Wrong Colours	Colour and Brightness errors can occur when the viewing angle/ambient air temperature (see technical specifications) are exceeded.	
While viewing a DVB (digital) channel, there is sound but no picture.	Some channel offers audio content only. It is normal.	
Blocky image or image stops intermittently.	Check all antenna connections. Move the antenna away from areas of possible interference. Try using an antenna booster.	10
Some digital channels cannot be viewed.	Contact the service provider to subscribe.	
No colour or picture black.	AV input set to Auto.	21
DVD		
The playback picture has occasional distortion.	The disc is dirty. Eject the disc and clean it. Some times a small amount of picture distortion may appear. This is not a malfunction.	22
The unit does not start playback.	No disc is inserted. Insert a disc. An unplayable disc is inserted. Insert a playable disc (Check the disc type and colour system). Place the disc in the disc slot with the label side facing forward. The disc is dirty. Clean the disc. Cancel the parental lock function or change the parental lock level.	24 22 24 22 30

- The LCD panel is a very high technology product, giving you fine picture details. Occasionally, a few nonactive pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

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Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range.

Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare.
For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel-TV nettet.

Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand.
För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet.

Specifications

TV	
System:	Analogue: PAL(B/G, D/K, I), SECAM(B/G, D/K), SECAM(L, L') Digital: DVB-T for UK
Video Colour System:	PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60
Preset channels:	Digital 100 Carrier (999 Service), Analog 100 Carrier
Frequency Range:	Analogue: 45.75MHz~858MHz Digital: E2~E69
LCD:	55 cm visible TFT low-glass Active Matrix Colour LCD, 1920 x 1080 Pixel
HDMI input:	HDMI compliant (type A connector), HDCP compliant Supported scan rates: PAL: 576i/576p/720p/1080i/1080p NTSC: 480i/480p/720p/1080i/1080p HDMI Audio: 2-channel PCM, 32/44.1/48 kHz sampling frequency 16/20/24 bits per sample
Audio Output Power:	1.5W (MAX) x 2
DVD	
Signal system:	NTSC, PAL (Region 2)
Applicable disc:	DVD (12cm, 8cm), CD (12cm, 8cm)
Output:	Digital Audio : 0.5Vp-p/75 Ω
Pickup:	CD : Wavelength: 775 - 815 nm Maximum output power: 0.5 mW DVD : Wavelength: 650 - 666 nm Maximum output power: 2.0 mW
GENERAL	
Power Source:	AC 220-240V, 50Hz
Power Consumption:	Operation: 30W at AC230V, 50Hz
	Standby: 0.70W at AC230V, 50Hz
Weight:	3.9 kg
Dimensions:	54(W)x39(H)x17(D)cm
Surrounding:	Operation: 5°C ~ 40°C/Storage: –20°C ~ 60°C
Operating Humidity:	Less than 80%RH
ACCESSORIES	
2 batteries (AA/R6/UM-3)/Remote control unit/AC cord/Stand/2 screws for stand	

Weight and Dimensions are approximate. Because we continuously strive to improve our products we may change specifications and designs without prior notice.

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Belgium	NVB	02/334.00.00	http://www.vanden-borre.be/	service@vandenborre.be
Netherlands	BCC	0900-0555	http://www.bcc.nl/	http://www.bcc.nl/info/contact
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